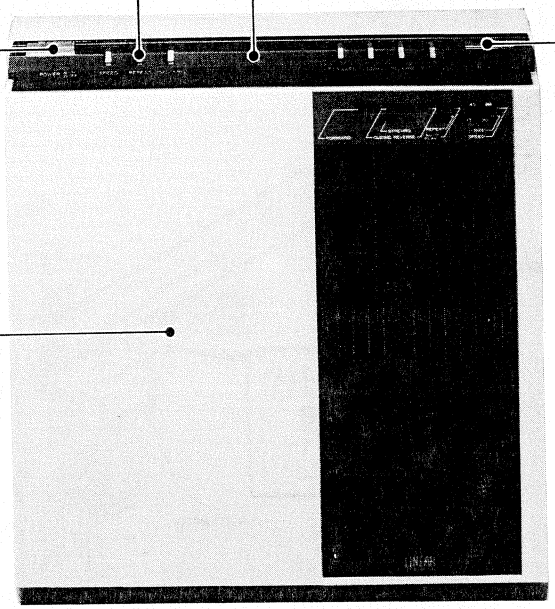
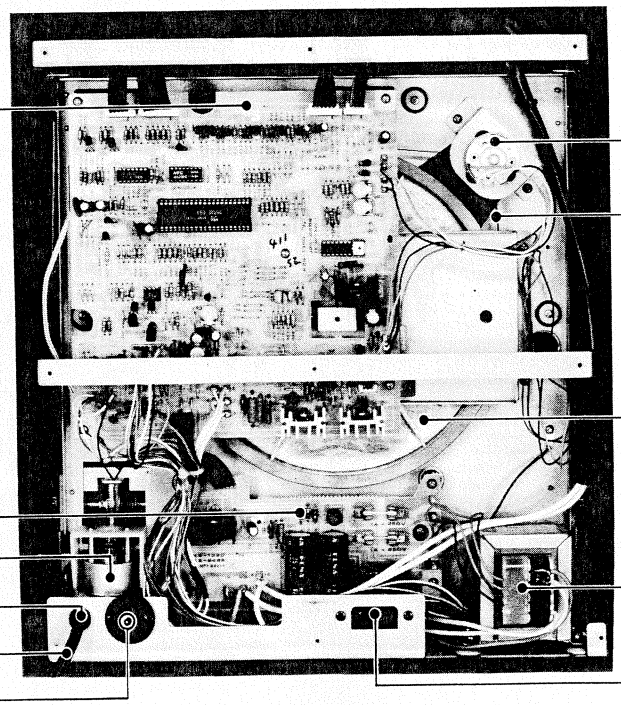
SERVICE MANUAL

KENWOOD

P-9

FULL-AUTOMATIC TURNTABLE



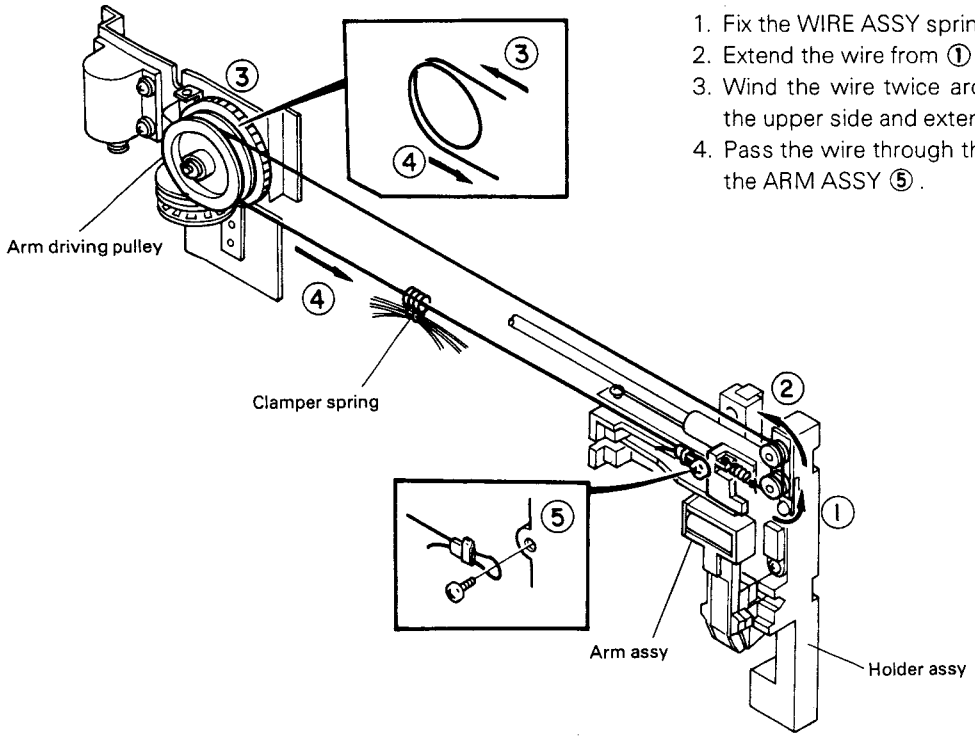


* Refer to Parts List on page 27

9

WIRE THREADING DIAGRAM/DISASSEMBLY FOR REPAIR

WIRE THREADING DIAGRAM

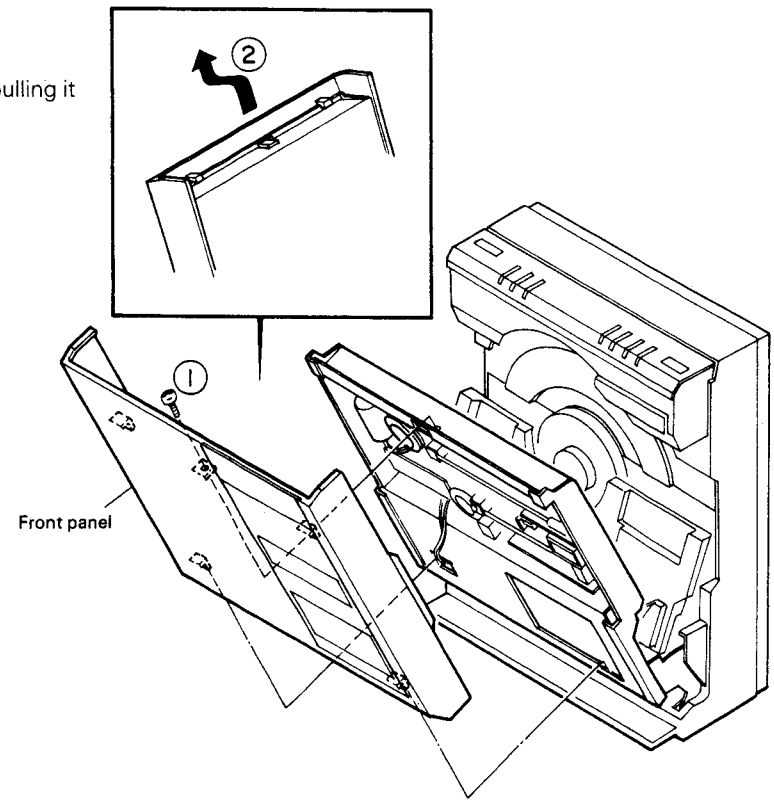


1. Fix the WIRE ASSY spring to the ARM ASSY.
2. Extend the wire from ① to ③.
3. Wind the wire twice around the arm driving pulley from the upper side and extend it to ④.
4. Pass the wire through the clamper spring and screw it to the ARM ASSY ⑤.

DISASSEMBLING FOR REPAIR

1. Removing the front panel

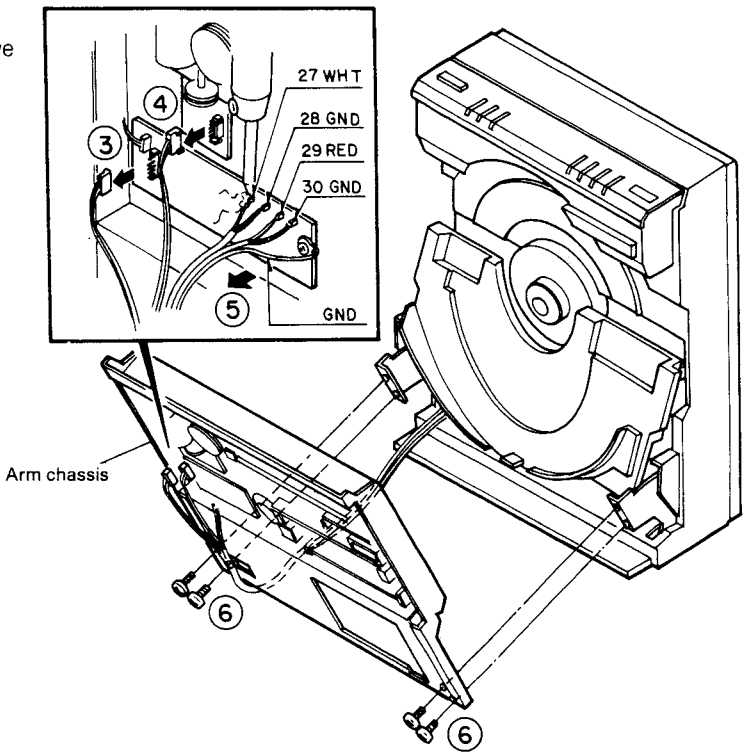
Remove screw ① and remove the front panel by pulling it up as shown by the arrow ②.



DISASSEMBLY FOR REPAIR

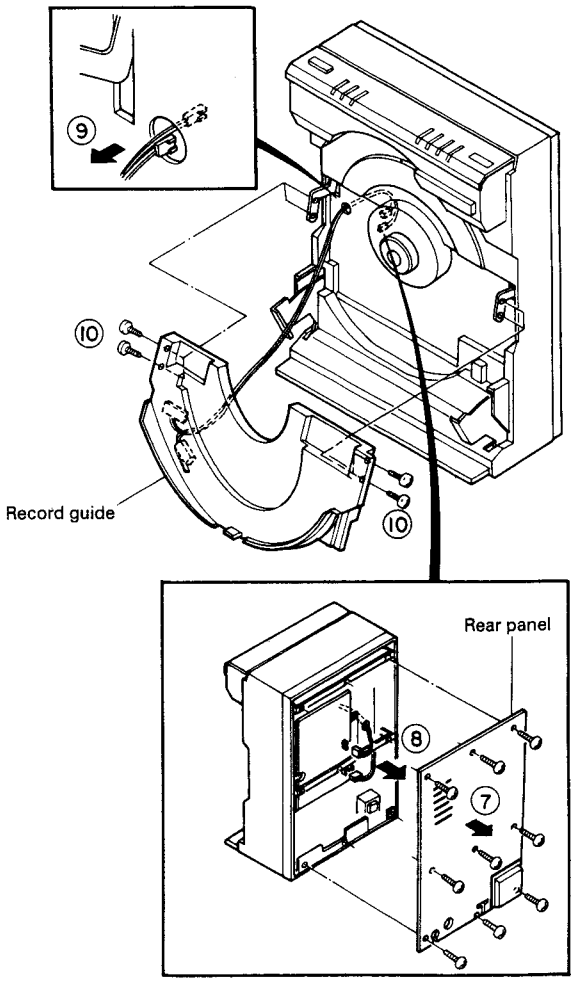
2. Removing the arm chassis

Pull out the connectors (③ , ④) on the PCB and remove 27 ~ 30 and GND cords ⑤.
Remove screws ⑥.



3. Removing the record guide

Remove the screws on the rear panel (⑦) and remove the rear panel.
Pull out the connectors (⑧) on the PCB.
Remove screws (⑩).

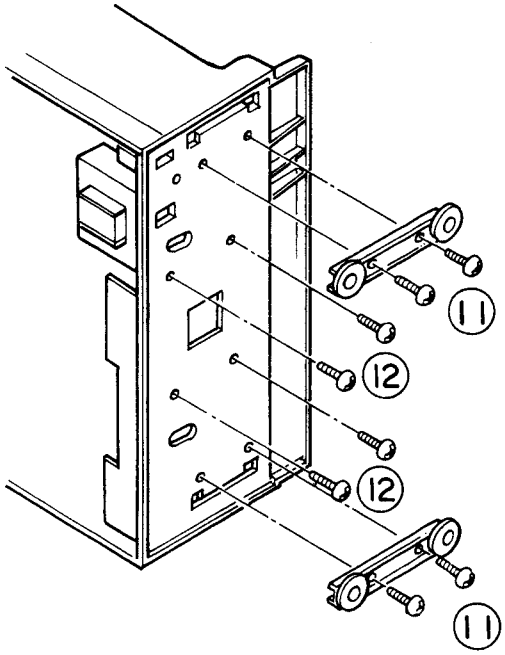


P-9

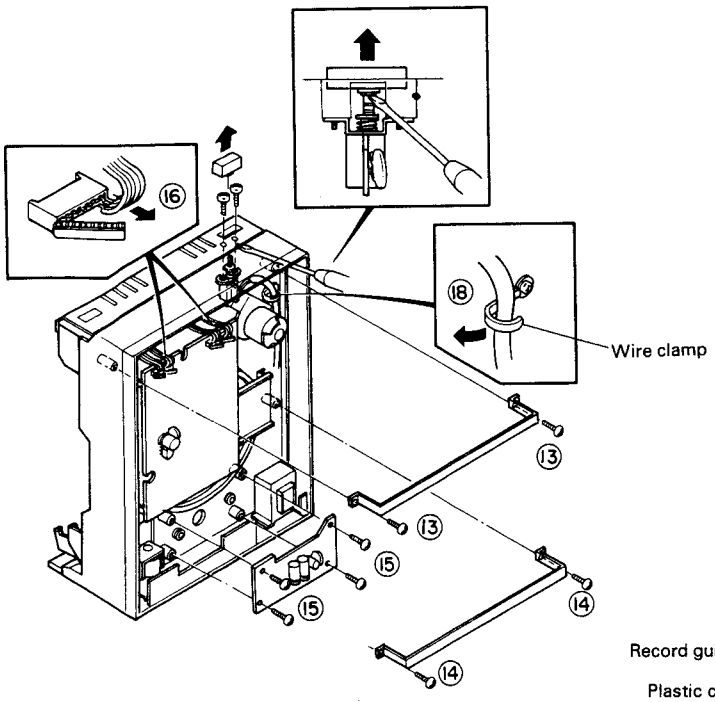
DISASSEMBLY FOR REPAIR

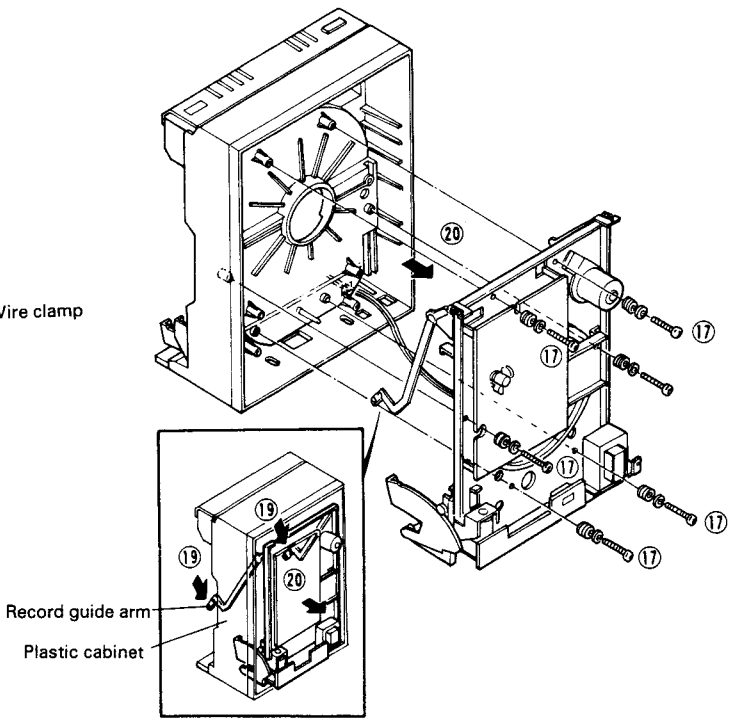
4. Removing the main chassis

Lay the P-9 on its side and remove screws (⑪ , ⑫).



Then, set up the P-9 and remove screws (⑬ , ⑭) and remove the mounting hardware.
Remove screws (⑮) and remove the PCB.
Pull out the parallel flat cords from the connectors (⑯) and remove screws (⑰).
Remove wire from the clamp ⑱ and move the main chassis in the direction of the arrow ⑳ .
(When moving the main chassis, push down the record guide arm as it touches plastic cabinet ⑲ .

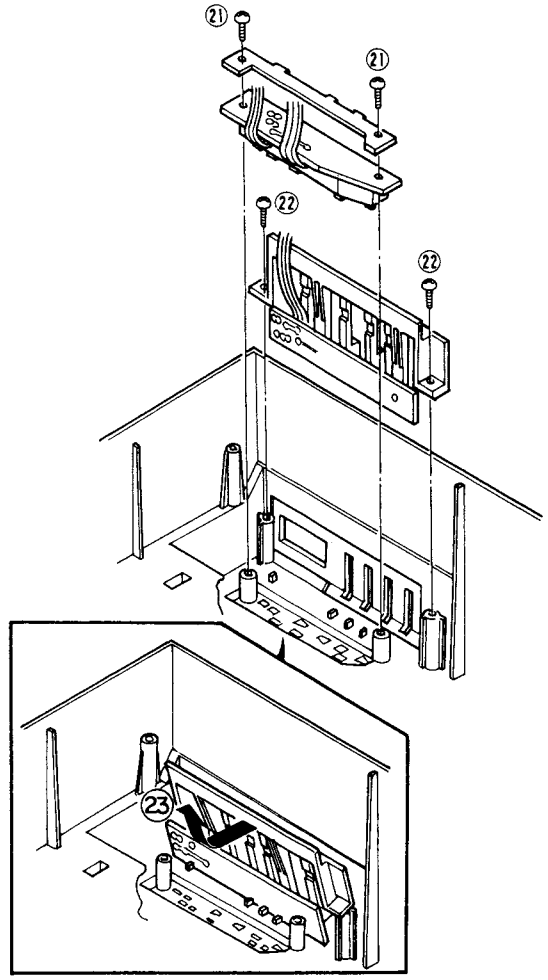




DISASSEMBLY FOR REPAIR

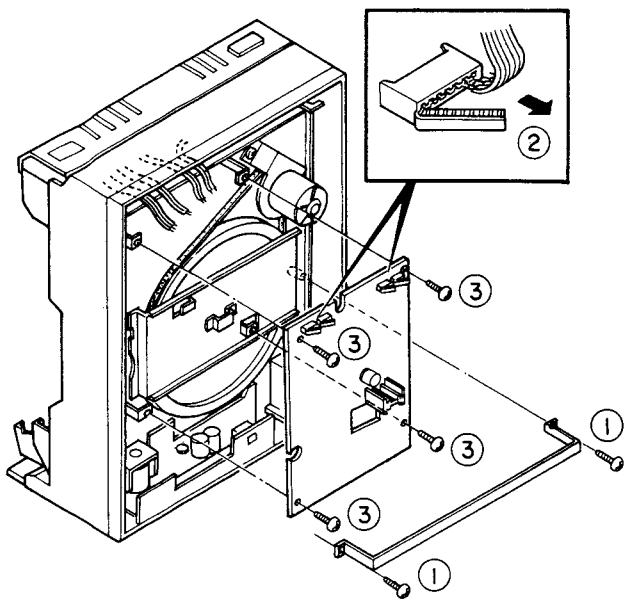
5. Removing the knobs

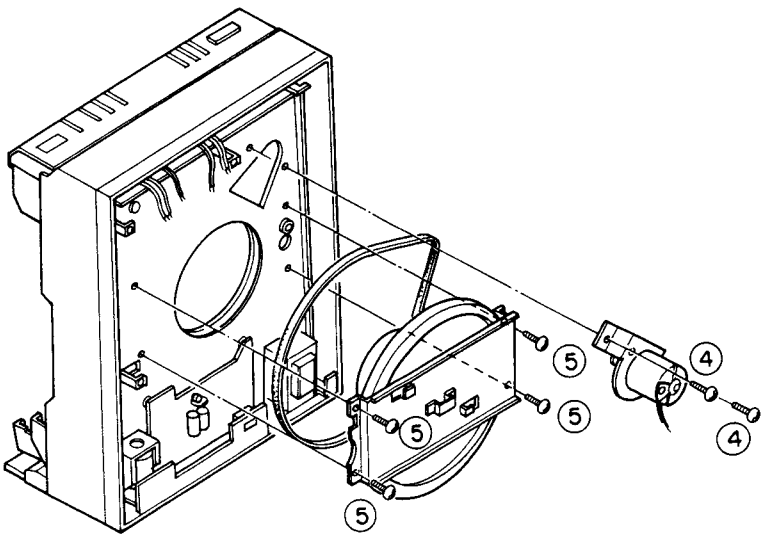
Remove screws ㉑ to remove the LED PCB.
Next remove screws ㉒ and remove the SW PCB by moving it as shown by the arrow ㉓.



6. Removing the belt

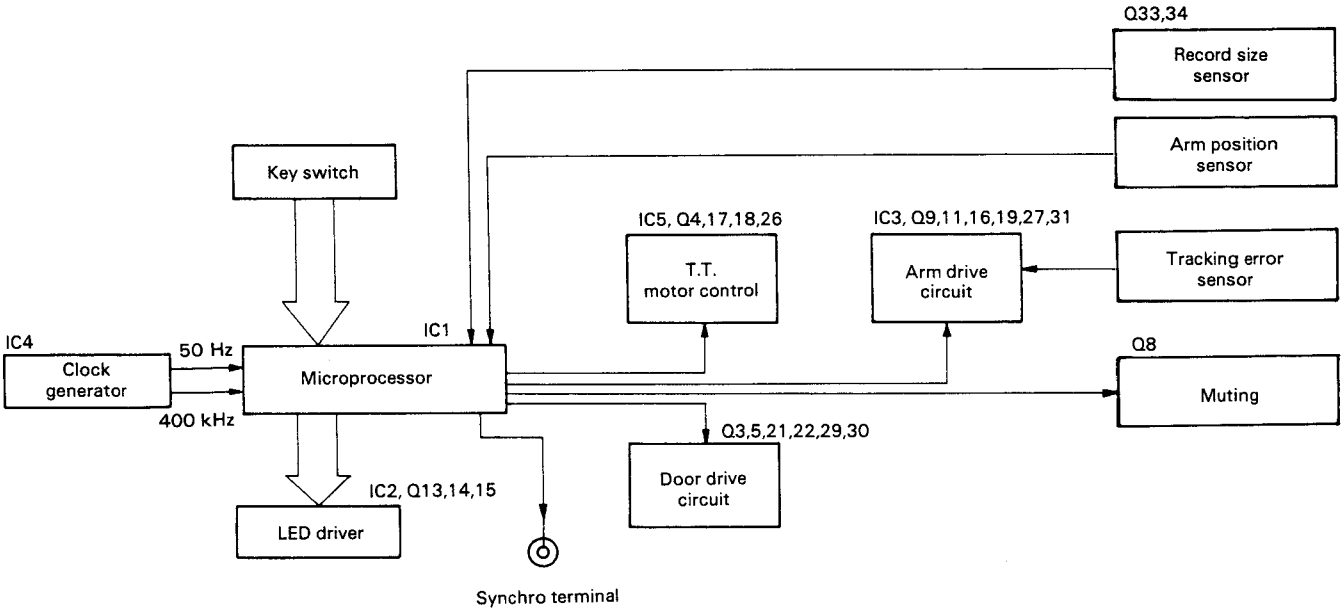
Remove the rear panel and pull out the parallel flat cords from the connectors (②).
Remove screws ③ to remove the PCB.
Remove screws ④ and release the motor from the belt.
When screws ⑤ are removed, the turntable ass'y comes off and the belt can be replaced.





9

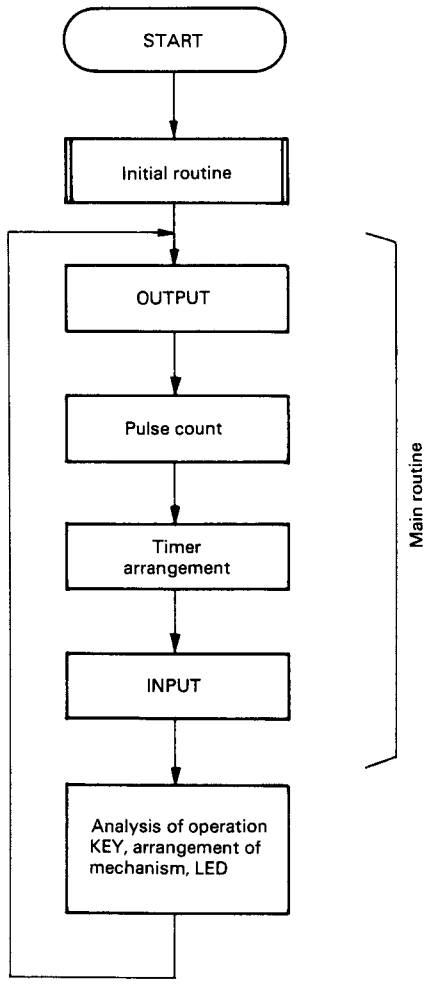
CIRCUIT DESCRIPTION



Microprocessor (μPD552C-93)

Program

The block diagram shows the program in the μPD552C-93.
Most of the time, the program is in the main routine.
If any change occurs to KEY input, the operation KEY analysis and the mechanism and the operation LEDs are activated.
When the POWER is first switched ON, the initial routine is performed and the arm is returned to the rest position.
When the arm returns to the rest position, the main routine starts. First, all output ports are opened and output signals. Then, the microprocessor counts up or down the pulses generated corresponding to the arm movement and the arm position is detected.
If the 50 Hz signal input to Pin 2 of the microprocessor rises and the timer is counting UP after counting DOWN, the operation branches to the mechanism arrangement routine.
When any change occurs in the KEY input, key operation is analyzed and the motors, plungers and LEDs are set.



CIRCUIT DESCRIPTION

DESCRIPTION OF PINS

Pin 1 CL1 ..... NO CONNECTION pin. The inverted waveform of Pin 42 CLO is generated.

Pin 2 PC0 ..... Clock pulse input port. This clock pulse is used to determine all the control signals. 50 Hz rectangular wave is input.
Clock 50 Hz

Pin 3 PC1 ..... Input from REST SW. SW is closed when the arm is at REST position and "H" is applied to this pin.
REST SW

Pin 4 PC2 ..... Input from DOOR OPEN SW. SW is closed when the door is fully opened and "H" is applied to this pin.
DOOR OPEN SW

Pin 5 PC3 ..... Input from DOOR CLOSE SW. SW is closed when the door is completely closed and "H" is applied to this pin.
DOOR CLOSE SW

Pin 6 INT ..... Pulse signals generated when the arm moves, by the rotation of the shutter between the photo interruptor are input.
PULSE COUNT

Pin 7 RES ..... The reset signal to initialize microprocessor is input. "H" is input when the power is switched ON.
REST

Pin 8 PD0 ..... Input from a photo-transistor for record size detection. "L" when a record is present and "H" when it is not.
17 CM SIZE

Pin 9 PD1 ..... Input from a photo-transistor for record size detection. "L" when a 30 cm LP record is present and "H" when it is not. The detection of 25 cm record is impossible.
30 CM SIZE

Pin 10 PD2 ..... Input from PROTECTION SW. If a 17 cm EP record is put on the 30 cm LP record guide, this switch closes and "H" is applied to this pin.
PROTECTOR

Pins 11 ~ 19 PD3 ~ PF3 ..... Output pins for indication LED. They become "H" to let LED ON.

Pin 22 PG0 ..... The platter is turning at 33-1/3 rpm when "H" is output.
33-1/3 PHONO M

Pin 23 PF1 ..... The platter is turning at 45 rpm when "H" is output.
45 PHONO M

Pin 24 PG2 ..... The door is opened when "H" is output.
OPEN DOOR M

Pin 25 PG3 ..... The door is closed when "H" is output.
CLOSE DOOR M

Pin 26 PH0 ..... The arm moves in forward direction when "H" is output.
FOR ARM M

Pin 27 PH1 ..... The arm moves in reverse direction when "H" is output.
REV ARM M

Pin 28 PH2 ..... The arm is freed to make tracking possible when "H" is output.
ARM DRIVE SELECT

Pin 29 PH3 SOLENOID ..... The same signal is output as Pin 28 PH2. "H" is output when the arm is DOWN. Solenoid is ON when "H".
SOLENOID

Pin 30 PI0 ..... "H" is output for 3.18 sec when Pin 29 PH3 rises.
KICK

Pin 31 PI1 ..... "H" is output in play mode and muting is released.
MUTING

Pin 32 PI2 ..... 100m sec pulse is output (synchro start, synchro stop signal).
SYNCHRO START

Pins 33 ~ 40 PA0 ~ PB3 ..... Input from OPERATION SWs (TACT SW). "H" at SW ON.
OPERATION SW

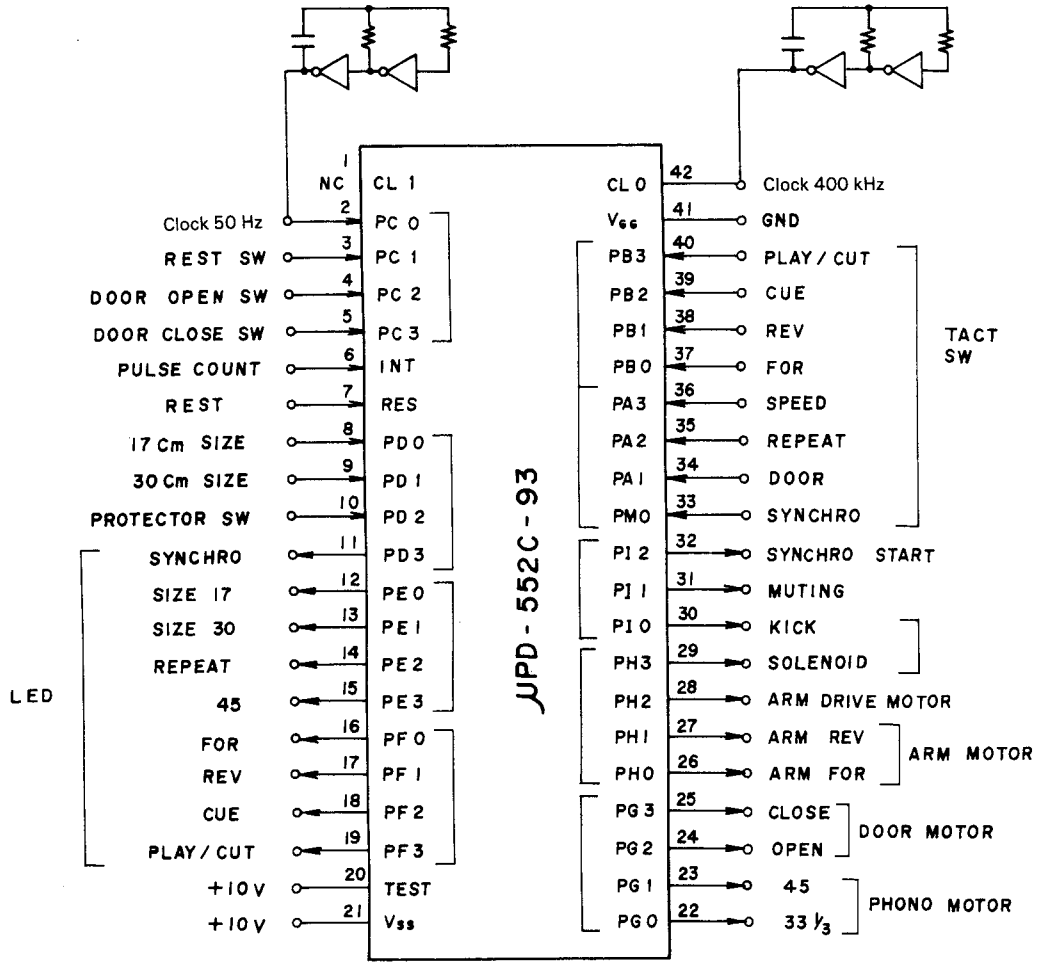
Pin 41 VGG ..... For ground connection.

Pin 42 CL0 ..... The clock is input to operate the microprocessor 400 kHz rectangular wave.
Clock 400 kHz

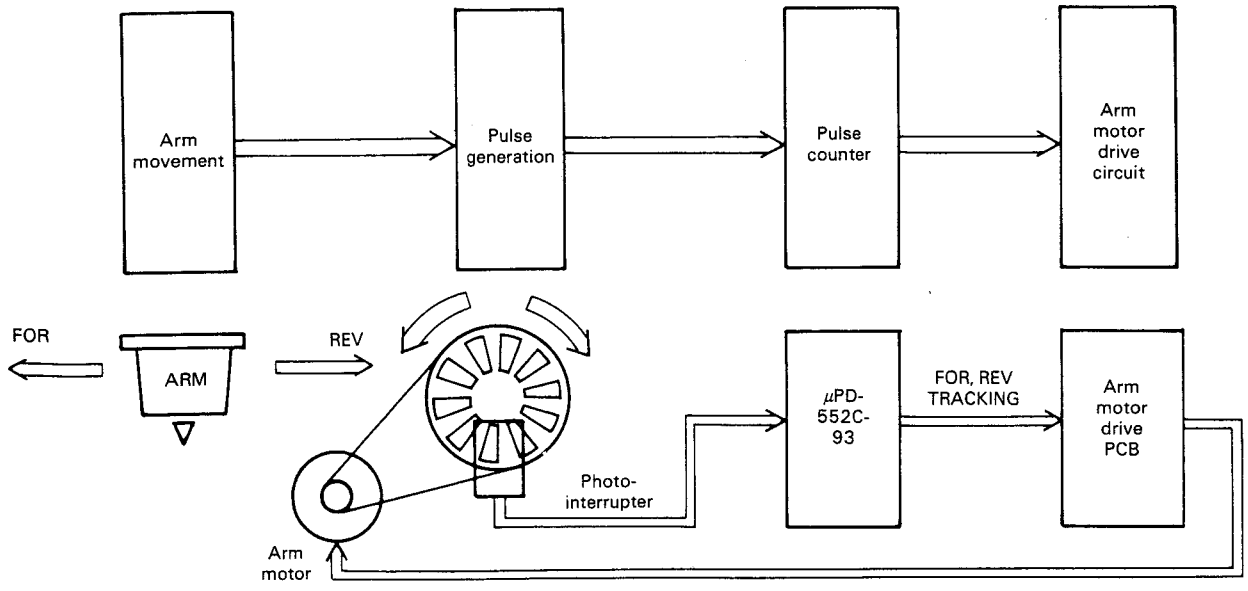
9

CIRCUIT DESCRIPTION

ARRANGEMENT OF PINS



ARM POSITION DETECTION



ADJUSTMENT/REGLAGES/ABGLEICH

ADJUSTMENT

NO.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	TURNTABLE SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
1	TURNING SPEED (33-1/3)	Test record (P-3021) (T99-0210-00)	(A)	Mannually playback a signal of 3000 Hz SPEED: 33	VR2	2240 Hz	
2	TURNING SPEED (45)	Test record (P-3021) (T99-0210-00)	(A)	Mannually playback a signal of 3000 Hz. SPEED: 45	VR1	3030 Hz	
3	TRACKING	–	Connect a DC voltmeter to D16 cathode.	Move the arm by FOR SW and down it by CUE SW.			(a)
4	AUTO-IN	Test record (SS-4445)	–	Auto play	Adjusting screw	20±5 count	(b)

REGLAGE

N°	ITEM	REGLAGE DE L'ENTREE	REGLAGE DE LA SORTIE	REGALAGE DU TOURNE-DISQUES	POINTS L'ALIGNMENT	ALIGNER POUR	FIG.
1	VITESSE DE ROTATION (33-1/3)	Disque d'essai (P-3021) (T99-0210-00)	(A)	Reproduire manuellement un signal de 3000 Hz SPEED: 33	VR2	2240 Hz	
2	VITESSE DE RATATION (45)	Disque d'essai (P-3021) (T99-0210-00)	(A)	Reproduire manuellement un signal de 3000 Hz SPEED: 45	VR1	3030 Hz	
3	CAPACITÉ DE LECTURE	–	Raccorder un voltmètre CC à la cathode D16.	Déplacer le bras par le mode FOR SW et l'abaisser par le mode CUE SW.	VR3	1,7V	(a)
4	ENTRÉE EN FONCTION AUTOMATIQUE	Disque d'essai (SS-4445)	–	Lecture automatique	Vis de réglage	20±5	(b)

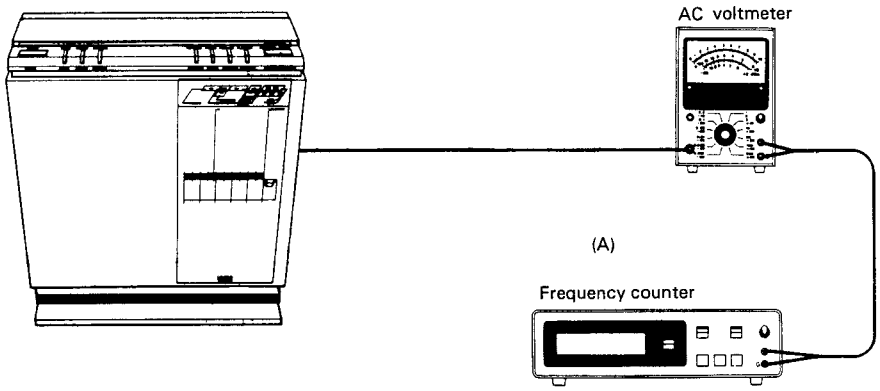
ABGLEICH

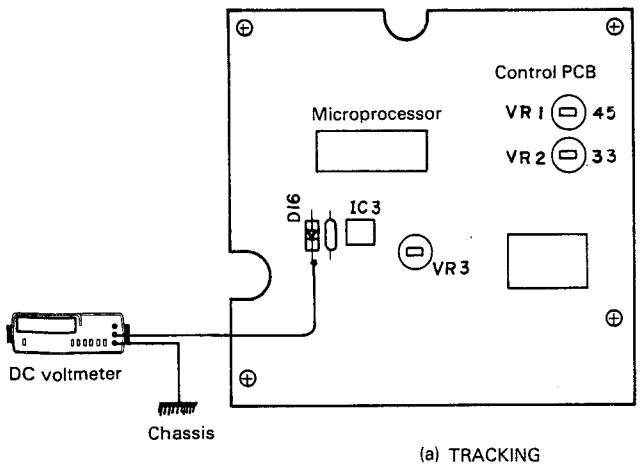
NR.	GEGENSTAND	EINGANGS-EINSTELLUNG	AUSGANGS-EINSTELLUNG	PLATTEN-SPIELER EINSTELLUNG	ABGLEICH-PUNKTE	ABGEICHEN FÜR	ABB.
1	DREHGESCH-WINDIGKEIT (33-1/3)	Testplatte (P-3021) (T99-0210-00)	(A)	Manuelle Wiedergabe eines Signals von 3000 Hz SPEED: 33	VR2	2240 Hz	
2	DREHGESCH-WINDIGKEIT (45)	Testplatte (P-3021) (T99-0210-00)	(A)	Manuelle Wiedergabe eines Signals von 3000 Hz SPEED: 45	VR1	3030 Hz	
3	SPURFÜHRUNG	–	Anschluß eines Gleichspannungs-Voltmessers an die D16 Kathode.	Den Tonarm durch den FOR-Schalter bewegen und durch den CUE-Schalter senken.	VR3	1,7V	(a)
4	AUTOMATISCHER EINLAUF	Testplatte (SS-4445)	–	Automatische Wiedergabe	Justierschraube	20±5	(b)

9

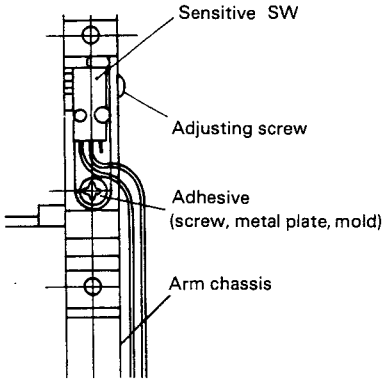
ADJUSTMENT/REGLAGES/ABGLEICH

TEST INSTRUMENT	APPAREILLAGE	PRÜFINSTRUMENTE	
Oscilloscope	Oscilloscope	Oszilloskop	SCOPE
AC voltmeter	Voltmètre CA	Wechselspannungsmesser	
Frequency counter	Fréquencemètre	Frequenzzähler	
DC voltmeter	Voltmètre CC	Gleichspannungsmesser	





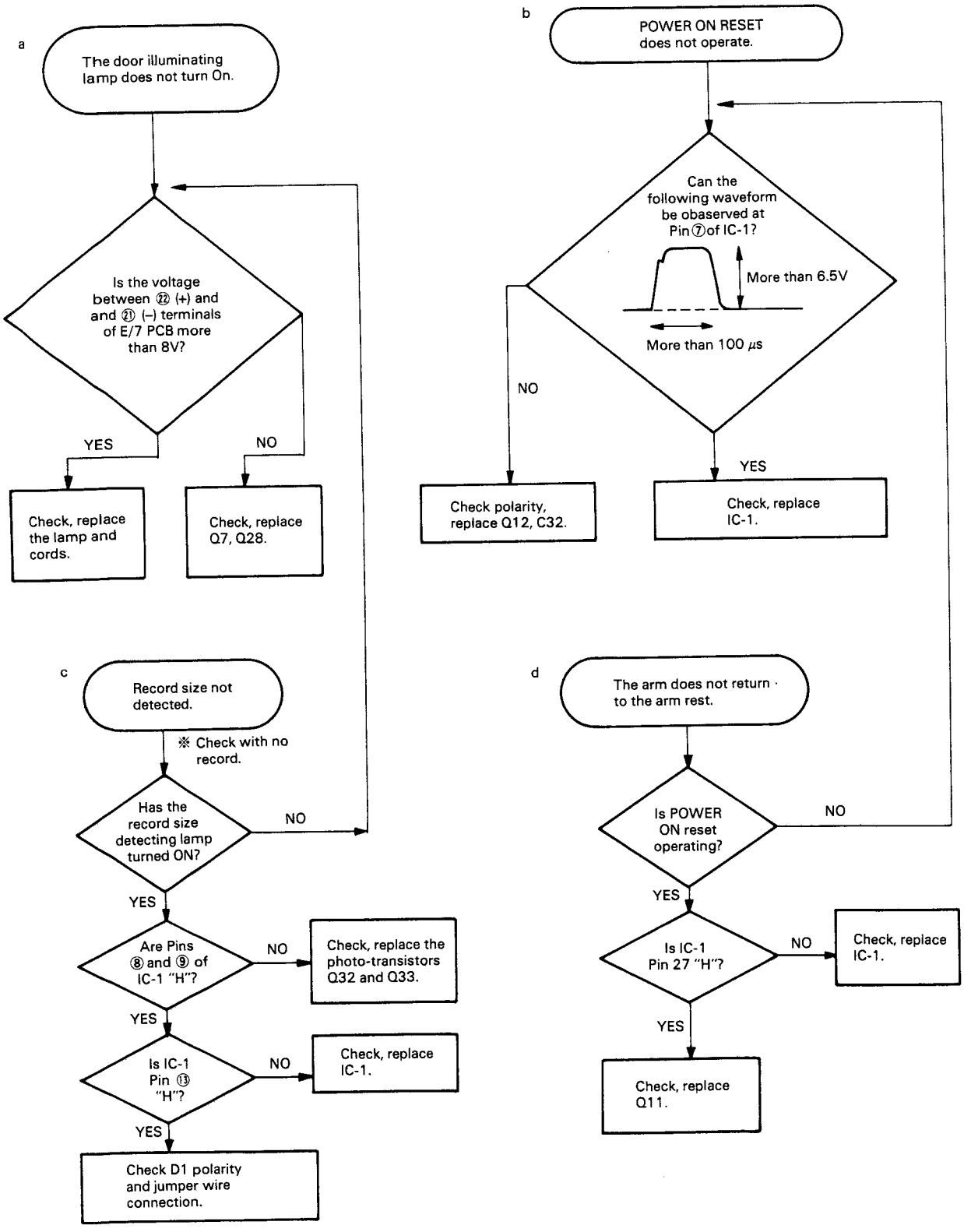
(a) TRACKING



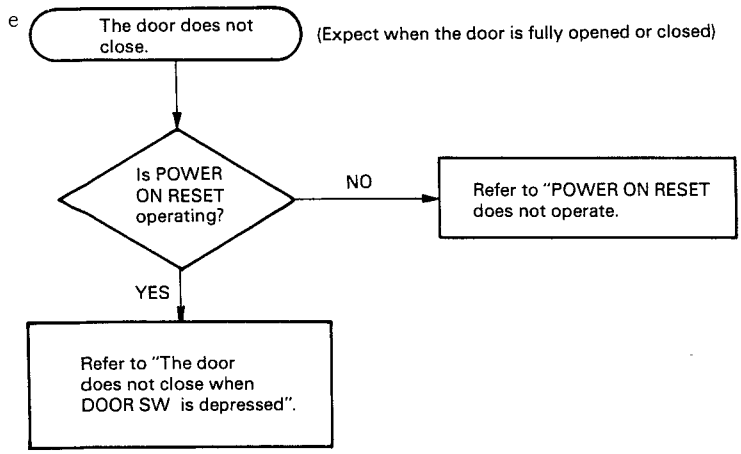
(b) AUTO-IN

TROUBLESHOOTING

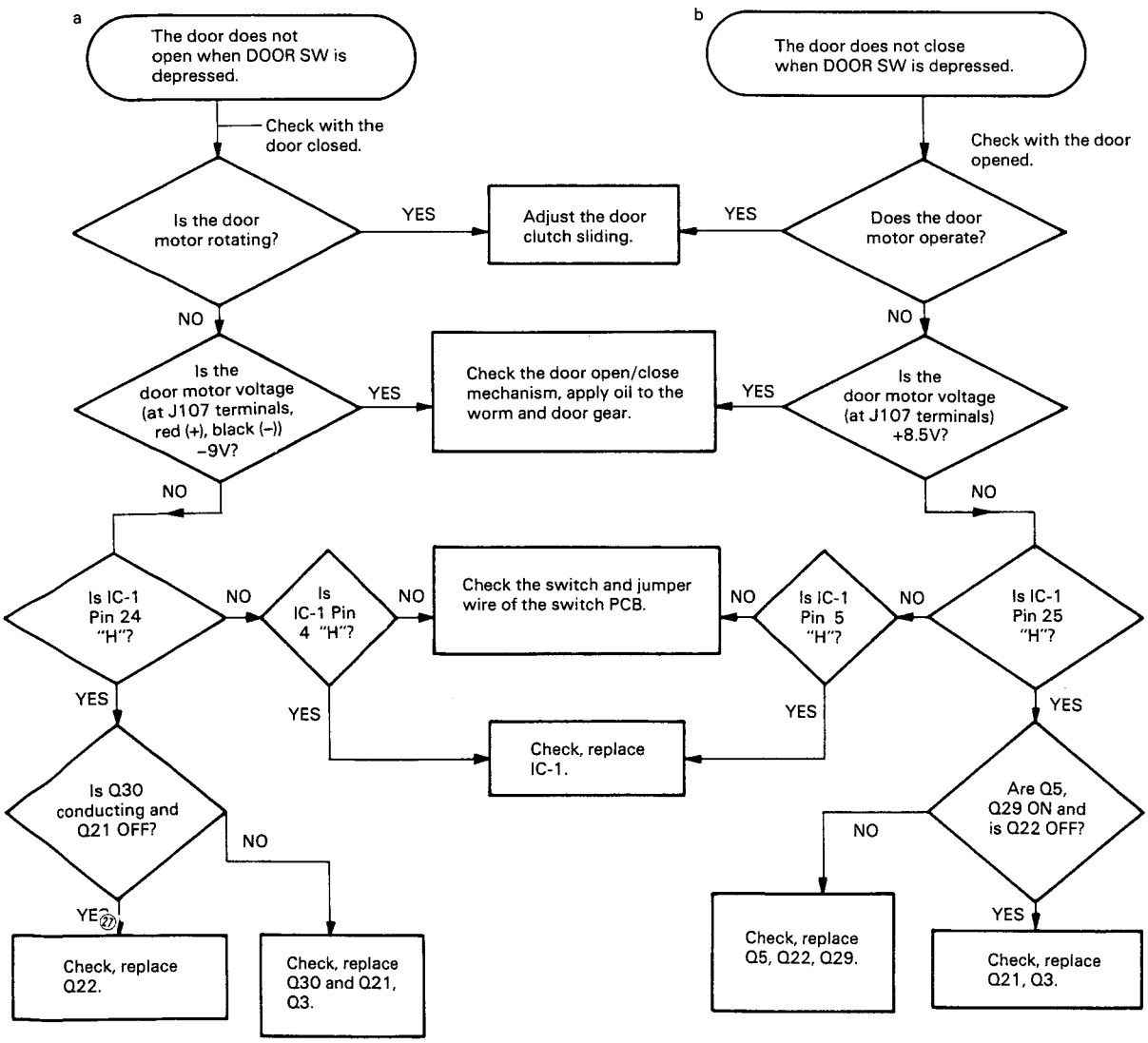
1. With Power SW ON



TROUBLESHOOTING

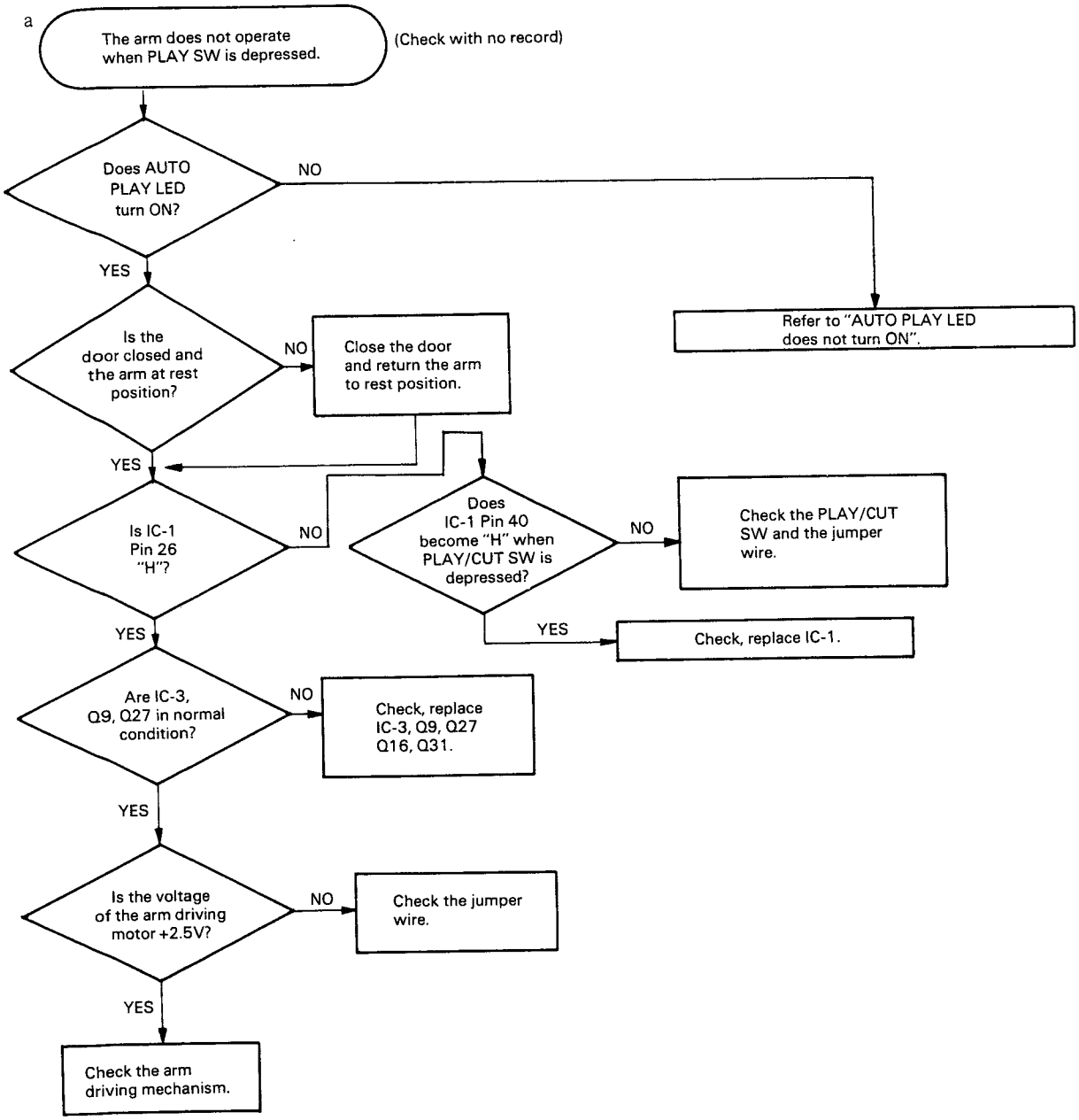

e
The door does not close.
(Expect when the door is fully opened or closed)
Is POWER ON RESET operating?
NO
Refer to "POWER ON RESET does not operate.
YES
Refer to "The door does not close when DOOR SW is depressed".

2. Door



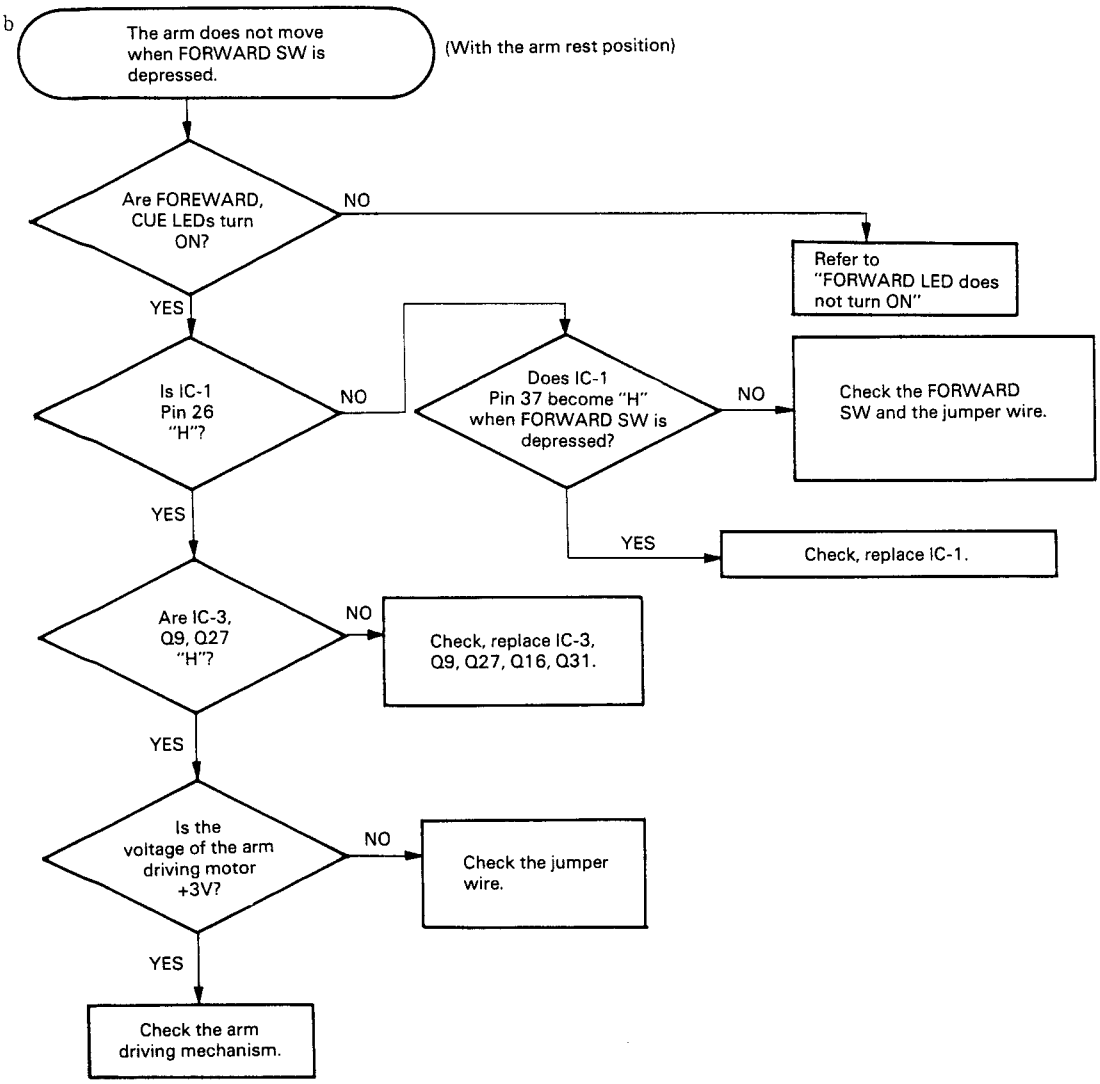
TROUBLESHOOTING

3. Arm

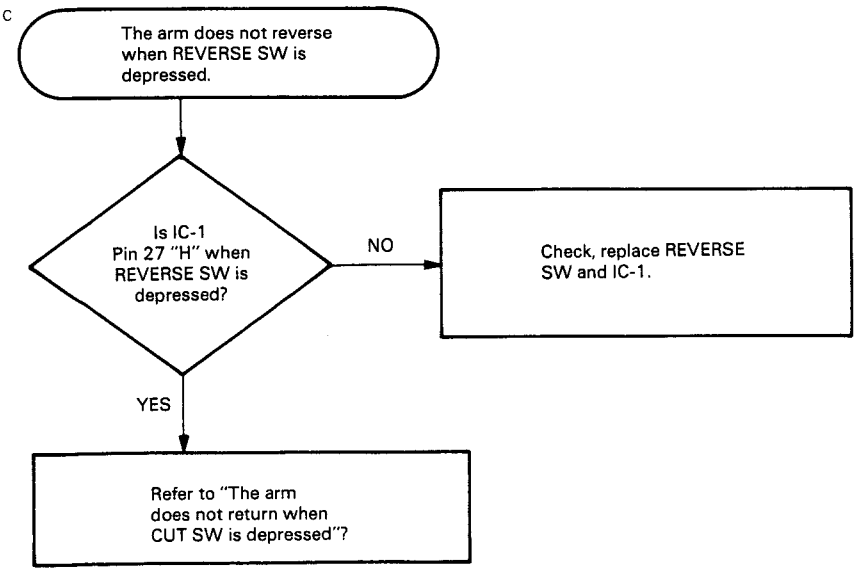

a
The arm does not operate when PLAY SW is depressed.
(Check with no record)
Does AUTO PLAY LED turn ON?
NO
YES
Refer to "AUTO PLAY LED does not turn ON".
Is the door closed and the arm at rest position?
NO
Close the door and return the arm to rest position.
YES
Is IC-1 Pin 26 "H"?
NO
Does IC-1 Pin 40 become "H" when PLAY/CUT SW is depressed?
NO
Check the PLAY/CUT SW and the jumper wire.
YES
Check, replace IC-1.
YES
Are IC-3, Q9, Q27 in normal condition?
NO
Check, replace IC-3, Q9, Q27 Q16, Q31.
YES
Is the voltage of the arm driving motor +2.5V?
NO
Check the jumper wire.
YES
Check the arm driving mechanism.

TROUBLESHOOTING

b

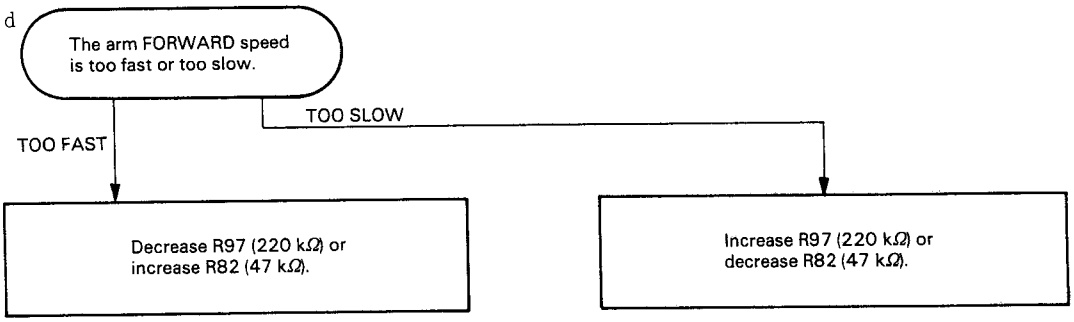

The arm does not move when FORWARD SW is depressed.
(With the arm rest position)
Are FOREWARD, CUE LEDs turn ON?
NO
Refer to "FORWARD LED does not turn ON"
YES
Is IC-1 Pin 26 "H"?
NO
Does IC-1 Pin 37 become "H" when FORWARD SW is depressed?
NO
Check the FORWARD SW and the jumper wire.
YES
YES
Check, replace IC-1.
Are IC-3, Q9, Q27 "H"?
NO
Check, replace IC-3, Q9, Q27, Q16, Q31.
YES
Is the voltage of the arm driving motor +3V?
NO
Check the jumper wire.
YES
Check the arm driving mechanism.

c

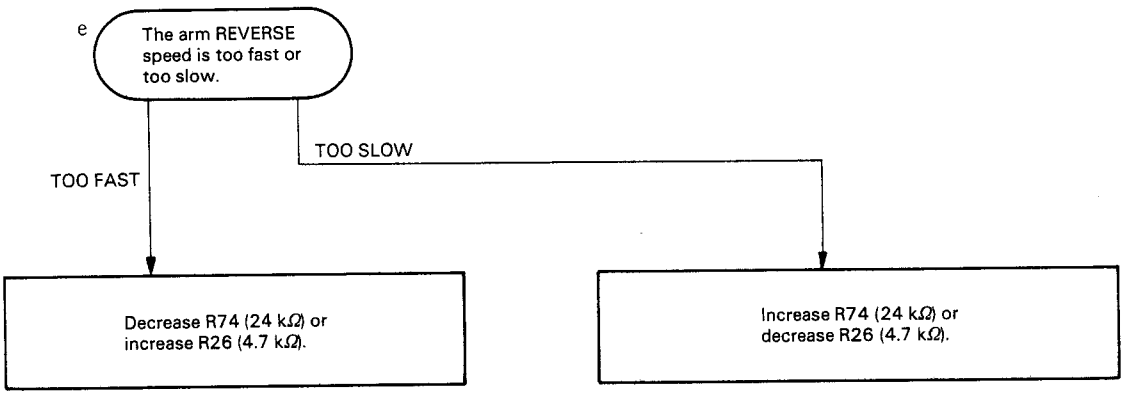

The arm does not reverse when REVERSE SW is depressed.
Is IC-1 Pin 27 "H" when REVERSE SW is depressed?
NO
Check, replace REVERSE SW and IC-1.
YES
Refer to "The arm does not return when CUT SW is depressed"?

TROUBLESHOOTING

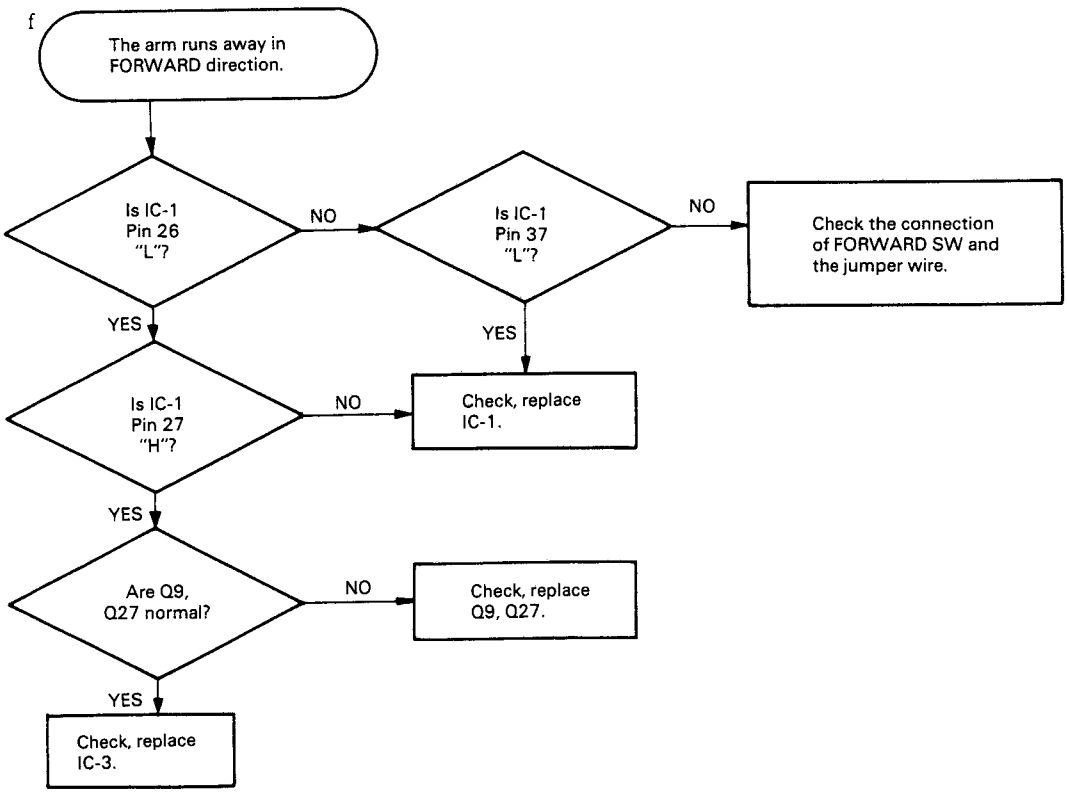
d


The arm FORWARD speed is too fast or too slow.
TOO FAST
TOO SLOW
Decrease R97 (220 kΩ) or increase R82 (47 kΩ).
Increase R97 (220 kΩ) or decrease R82 (47 kΩ).

e

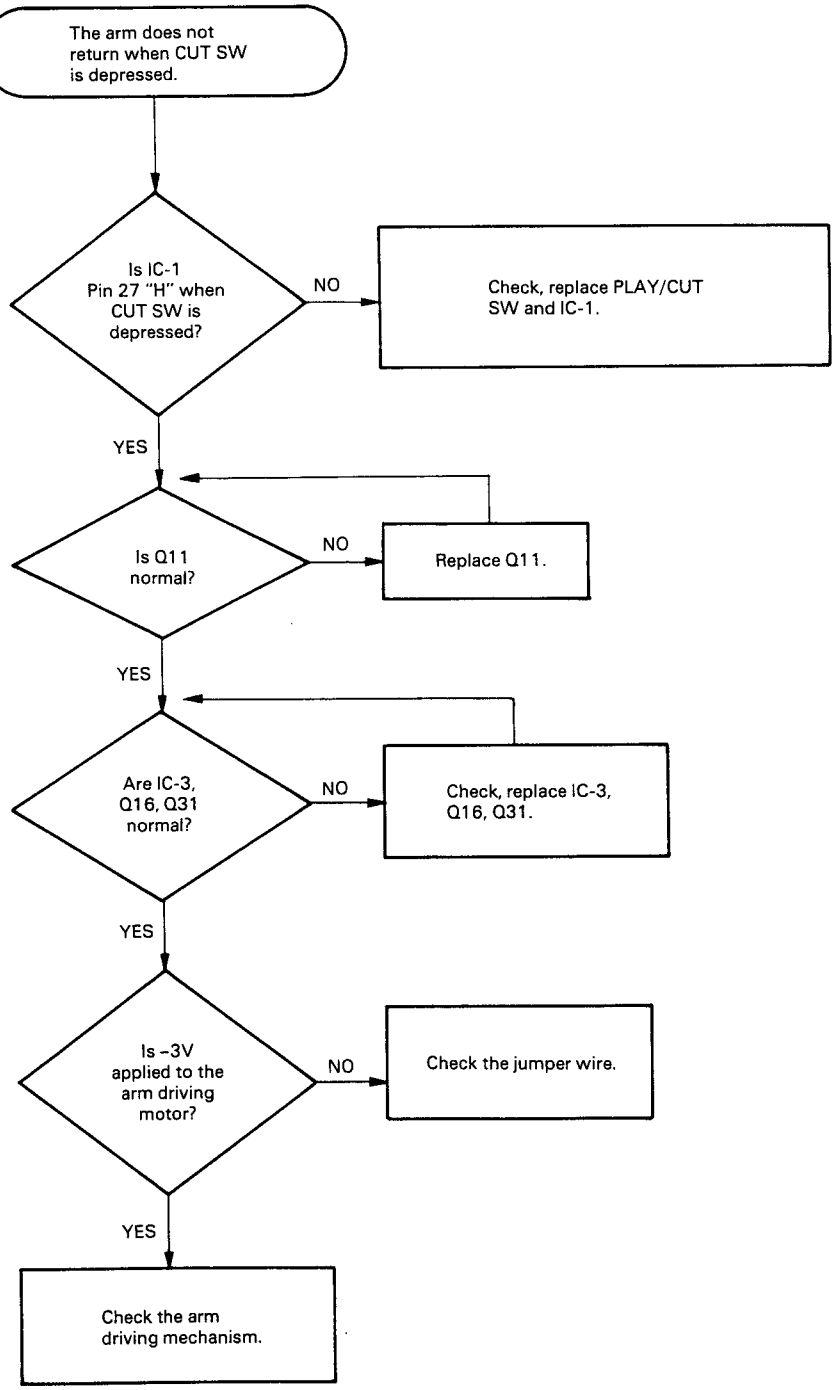

The arm REVERSE speed is too fast or too slow.
TOO FAST
TOO SLOW
Decrease R74 (24 kΩ) or increase R26 (4.7 kΩ).
Increase R74 (24 kΩ) or decrease R26 (4.7 kΩ).

f



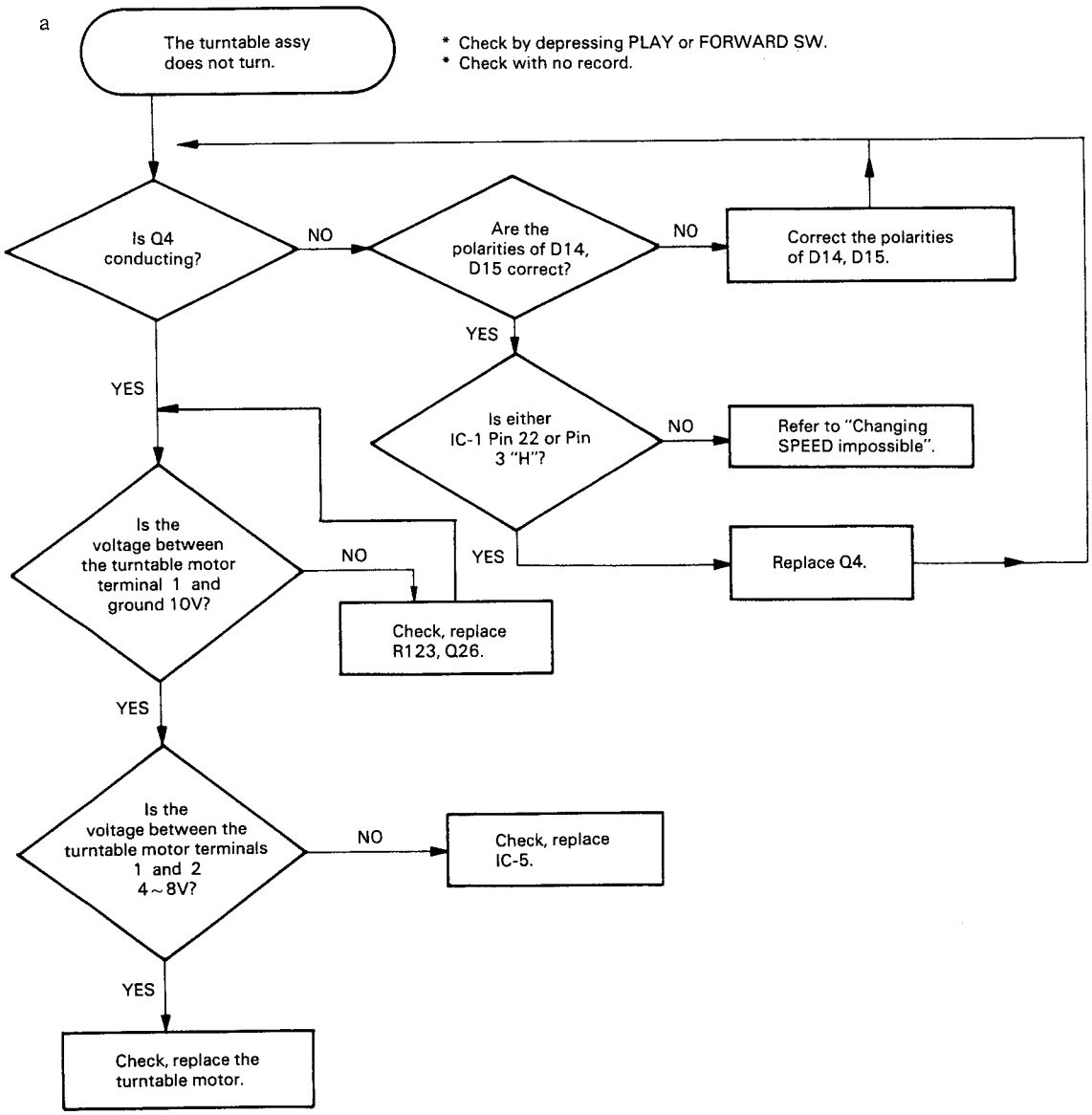
TROUBLESHOOTING

g



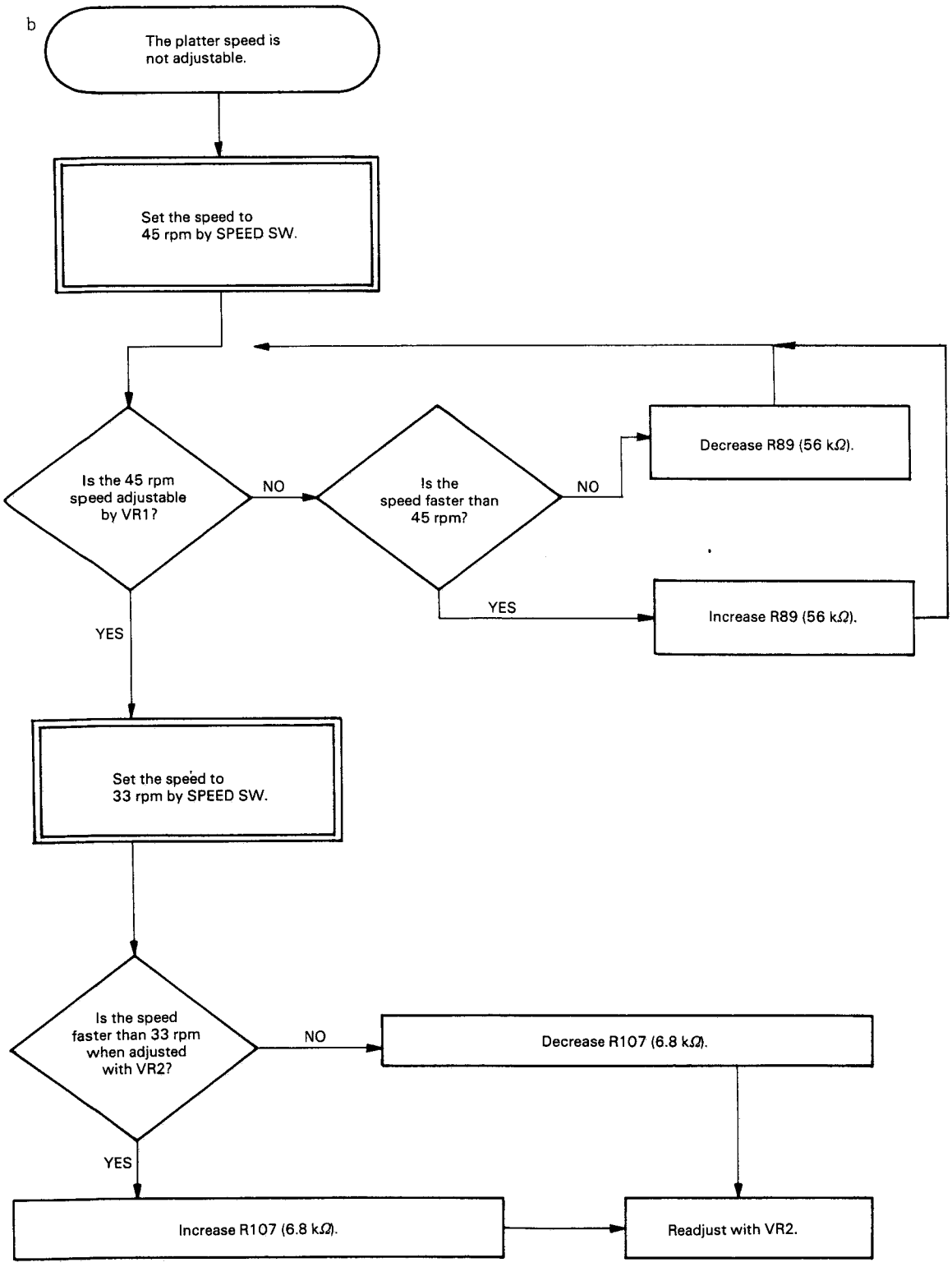
TROUBLESHOOTING

4. Turntable

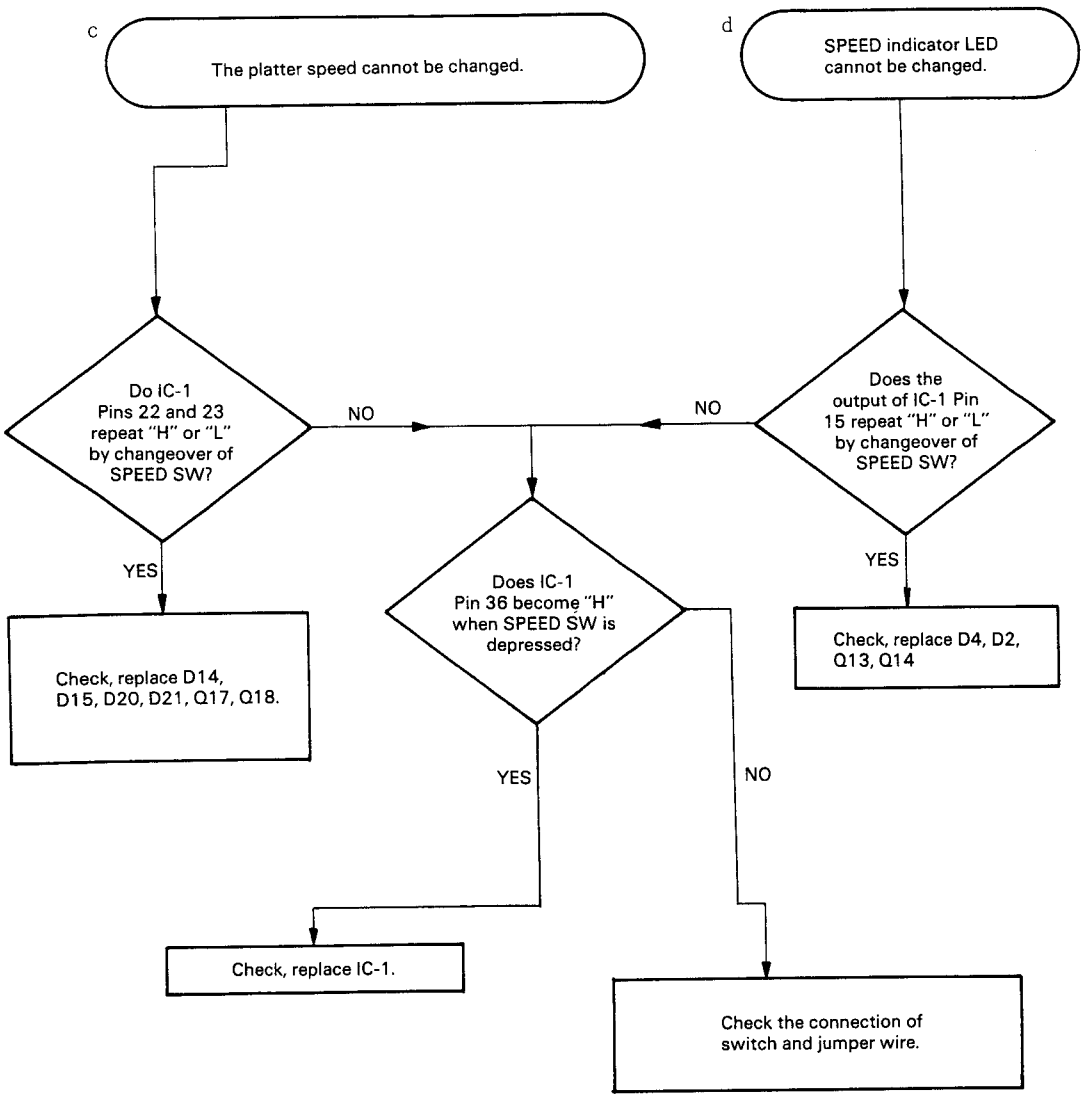


TROUBLESHOOTING

b


The platter speed is not adjustable.
Set the speed to 45 rpm by SPEED SW.
Is the 45 rpm speed adjustable by VR1?
NO
Is the speed faster than 45 rpm?
NO
Decrease R89 (56 kΩ).
YES
Increase R89 (56 kΩ).
YES
Set the speed to 33 rpm by SPEED SW.
Is the speed faster than 33 rpm when adjusted with VR2?
NO
Decrease R107 (6.8 kΩ).
YES
Increase R107 (6.8 kΩ).
Readjust with VR2.

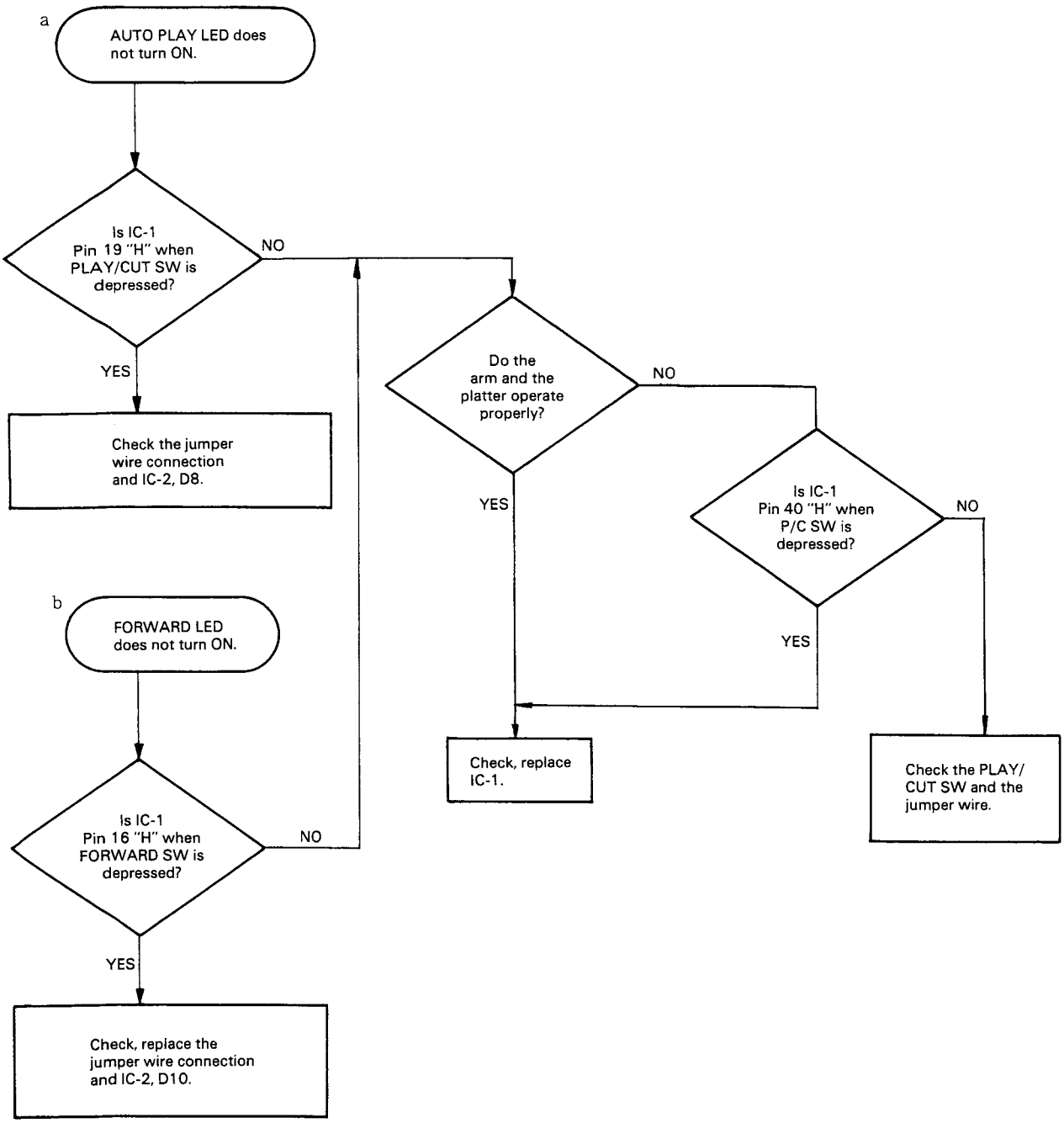
TROUBLESHOOTING


c
The platter speed cannot be changed.
d
SPEED indicator LED cannot be changed.
Do IC-1 Pins 22 and 23 repeat "H" or "L" by changeover of SPEED SW?
NO
NO
Does the output of IC-1 Pin 15 repeat "H" or "L" by changeover of SPEED SW?
YES
YES
Check, replace D14, D15, D20, D21, Q17, Q18.
Does IC-1 Pin 36 become "H" when SPEED SW is depressed?
Check, replace D4, D2, Q13, Q14
YES
NO
Check, replace IC-1.
Check the connection of switch and jumper wire.

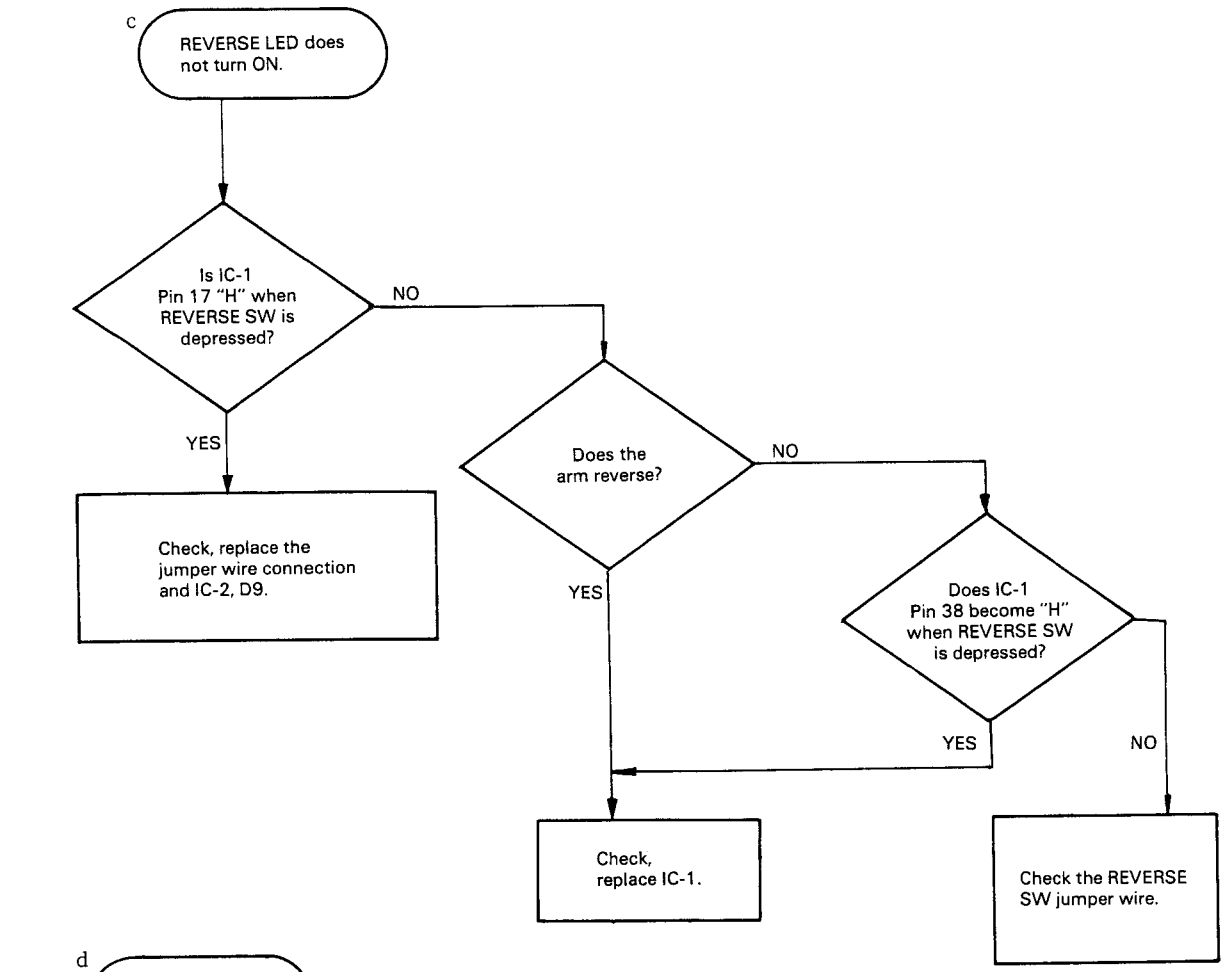
9

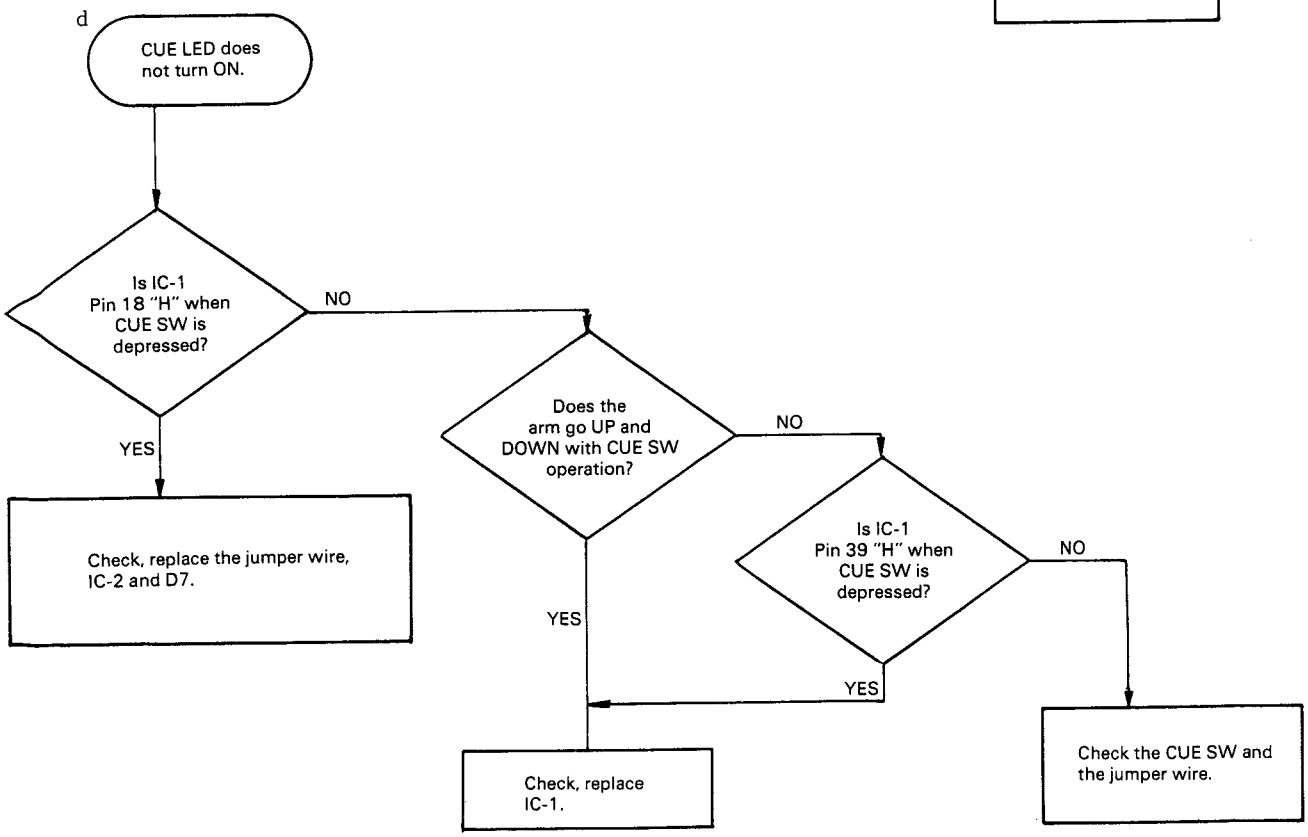
TROUBLESHOOTING

5. Indication LEDs


a
AUTO PLAY LED does not turn ON.
Is IC-1 Pin 19 "H" when PLAY/CUT SW is depressed?
NO
YES
Check the jumper wire connection and IC-2, D8.
Do the arm and the platter operate properly?
NO
YES
Is IC-1 Pin 40 "H" when P/C SW is depressed?
NO
YES
Check, replace IC-1.
Check the PLAY/ CUT SW and the jumper wire.
b
FORWARD LED does not turn ON.
Is IC-1 Pin 16 "H" when FORWARD SW is depressed?
NO
YES
Check, replace the jumper wire connection and IC-2, D10.

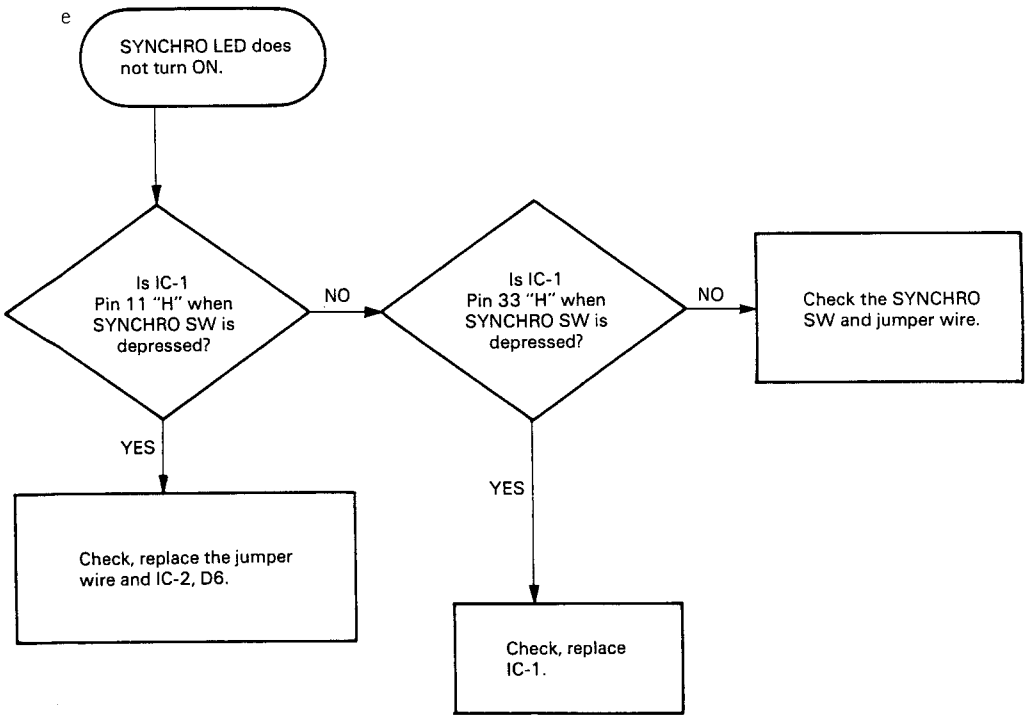
TROUBLESHOOTING


c
REVERSE LED does not turn ON.
Is IC-1 Pin 17 "H" when REVERSE SW is depressed?
NO
YES
Check, replace the jumper wire connection and IC-2, D9.
Does the arm reverse?
NO
YES
Does IC-1 Pin 38 become "H" when REVERSE SW is depressed?
YES
NO
Check, replace IC-1.
Check the REVERSE SW jumper wire.

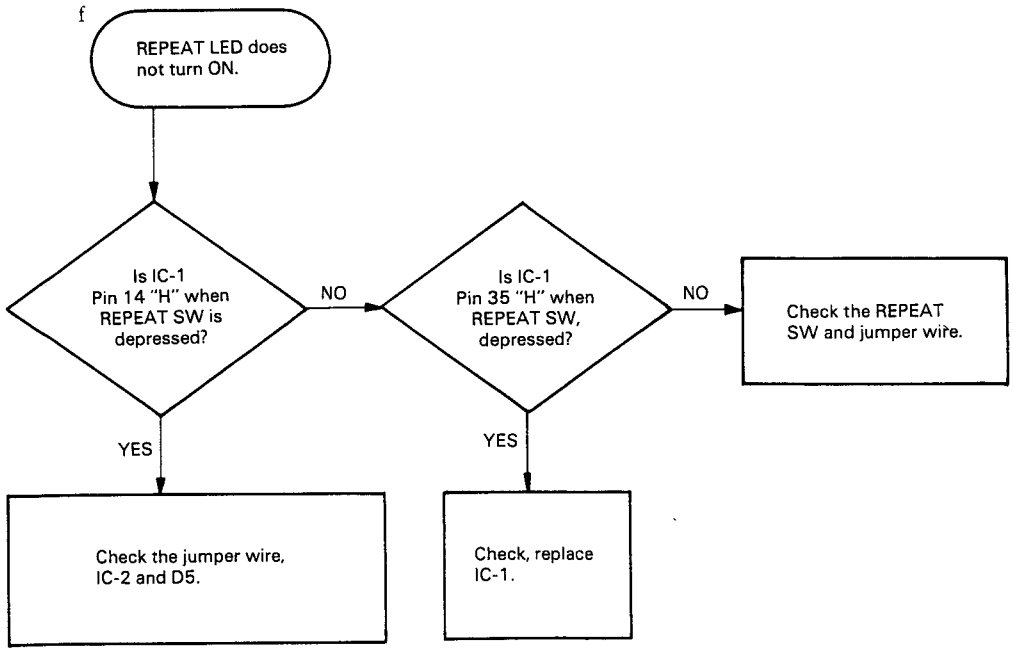

d
CUE LED does not turn ON.
Is IC-1 Pin 18 "H" when CUE SW is depressed?
NO
YES
Check, replace the jumper wire, IC-2 and D7.
Does the arm go UP and DOWN with CUE SW operation?
NO
YES
Is IC-1 Pin 39 "H" when CUE SW is depressed?
NO
YES
Check, replace IC-1.
Check the CUE SW and the jumper wire.

TROUBLESHOOTING

e

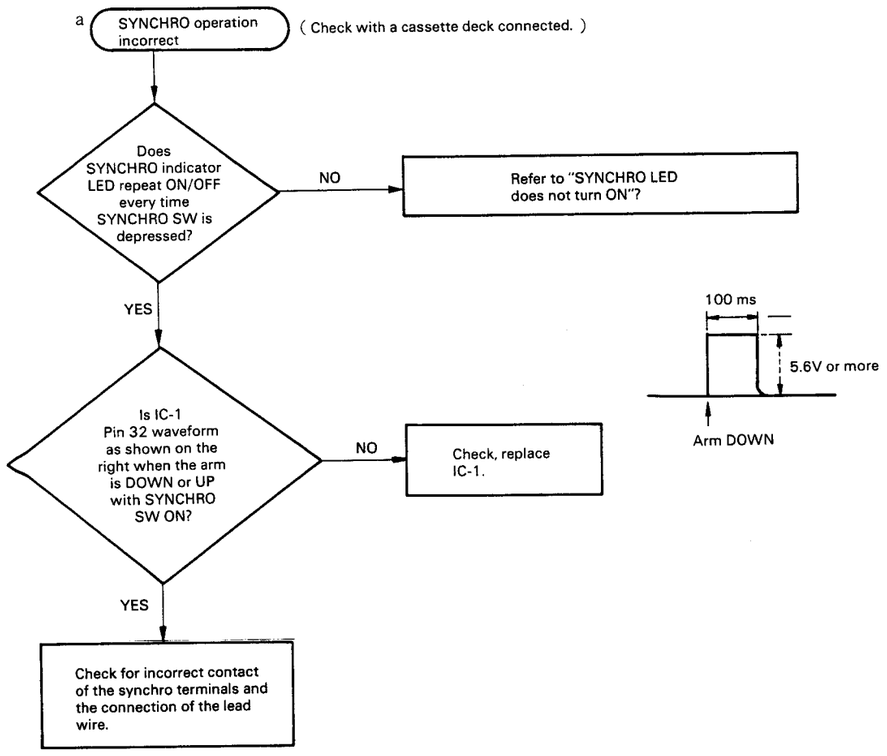

SYNCHRO LED does not turn ON.
Is IC-1 Pin 11 "H" when SYNCHRO SW is depressed?
NO
Is IC-1 Pin 33 "H" when SYNCHRO SW is depressed?
NO
Check the SYNCHRO SW and jumper wire.
YES
Check, replace the jumper wire and IC-2, D6.
YES
Check, replace IC-1.

f


REPEAT LED does not turn ON.
Is IC-1 Pin 14 "H" when REPEAT SW is depressed?
NO
Is IC-1 Pin 35 "H" when REPEAT SW, depressed?
NO
Check the REPEAT SW and jumper wire.
YES
Check the jumper wire, IC-2 and D5.
YES
Check, replace IC-1.

6. Others

a


SYNCHRO operation incorrect
(Check with a cassette deck connected.)
Does SYNCHRO indicator LED repeat ON/OFF every time SYNCHRO SW is depressed?
NO
Refer to "SYNCHRO LED does not turn ON"?
YES
Is IC-1 Pin 32 waveform as shown on the right when the arm is DOWN or UP with SYNCHRO SW ON?
NO
Check, replace IC-1.
YES
Check for incorrect contact of the synchro terminals and the connection of the lead wire.
100 ms
5.6V or more
Arm DOWN

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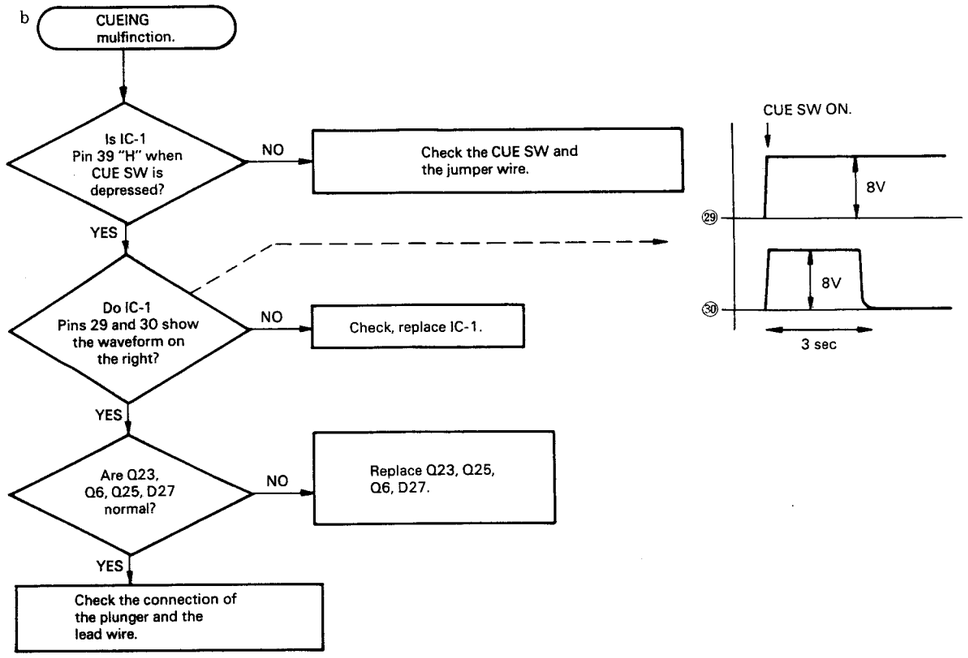
TROUBLESHOOTING

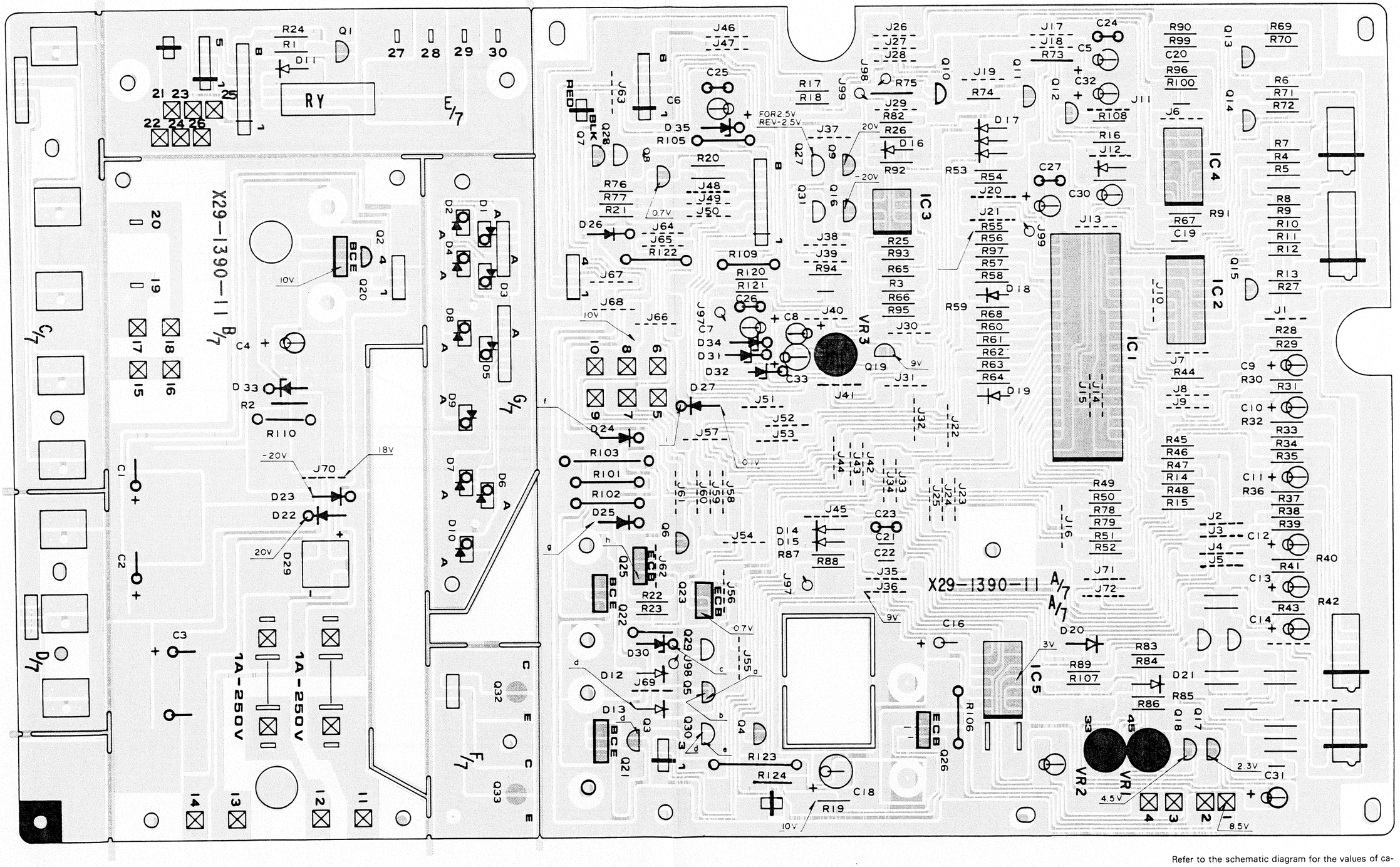
b



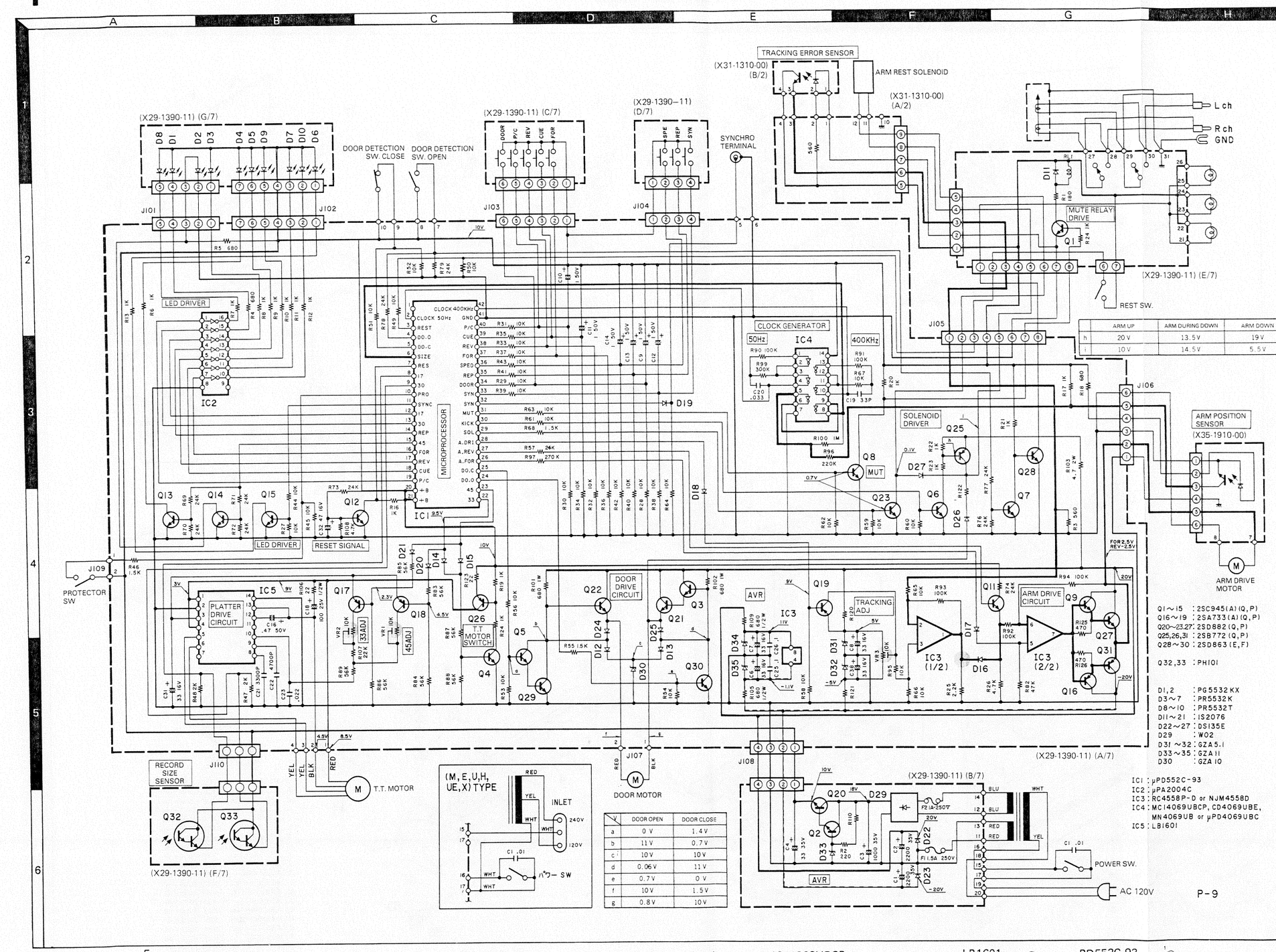
P-9 P-9

PC BOARD

CONTROL AMP (X29-1390-11) Components side view

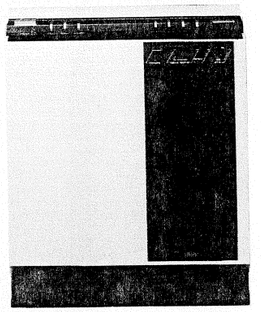


Refer to the schematic diagram for the values of capacitors and resistors.
The PC board drawing is viewed from the side easy to check.



	ARM UP	ARM DURING DOWN	ARM DOWN
h	20 V	13.5 V	19 V
i	10 V	14.5 V	5.5 V

	DOOR OPEN	DOOR CLOSE
a	0 V	1.4 V
b	11 V	0.7 V
c	10 V	10 V
d	0.06 V	11 V
e	0.7 V	0 V
f	10 V	1.5 V
g	0.8 V	10 V



SPECIFICATIONS

MOTOR AND TURNTABLE

Drive System..... Belt-drive system
Motor..... F. G. servo motor
Turntable Platter..... 20.5 cm (8-1/16") diameter
Speeds..... 2 speeds, 33-1/3 and 45 rpm
Wow & Flutter..... Less than 0.07% (WRMS)
Rumble..... DIN weighted better than −65 dB

TONEARM

Type..... Dynamic-balance type, Linear tracking system
Effective Arm Length..... 62 mm (2-7/16")
Tracking Error..... ±0.5°
Tracking Force..... 2.5 g (fixed)

CARTRIDGE

Furnished Cartridge..... V-52 (Dual Magnet type)
Frequency Response..... 20 ~ 20,000 Hz
Output Voltage..... 2.5 mV (1,000 Hz, 5 cm/sec.)
Load Impedance..... 47 k ohms
Stylus..... 0.6 mil diamond
Optimum Tracking Force... 2.5 g
Replacement Stylus..... N-52

MISCELLANEOUS

Power Requirements..... AC 120 V, 60 Hz: U.S.A. and Canada Models
AC 120 V/220-240V (Switchable), 50/60 Hz: Other countries

Power Consumption..... 23 watts
Dimensions..... W 358 mm (14-1/8")
H 392 mm (15-7/16")
D 187 mm (7-3/8")

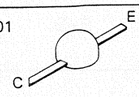
Weight..... 9 kg (19.2 lb)
Built-in Features..... Fully-automatic tonearm system (Automatic lead-in/Return/Cut/Repeat)
Auto size and speed selector system
Cueing device
Synchro-start/stop system
Free selection system
Built-in EP adantor

Kenwood follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

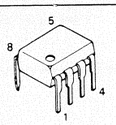
Kenwood poursuit une politique de progrès constants en ce qui concerne le développement. Pour cette raison les spécifications sont sujettes à modifications sans preavis.

Kenwood strebt ständige Verbesserungen in der Entwicklung an. Daher bleiben Änderungen der technischen Daten jederzeit vorbehalten.

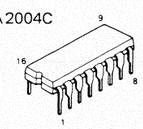
PH101



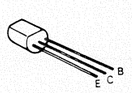
RC4558P-D
NJM4558D



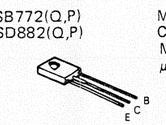
μPA2004C



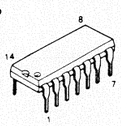
2SA733(A) (Q,P)
2SC945(A) (Q,P)
2SD863(E,F)



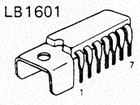
2SB772(Q,P)
2SD882(Q,P)



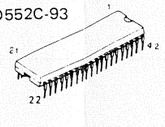
MC14069UBCP
CD4069UBE
MN4069UB
μPD4069UBC



LB1601



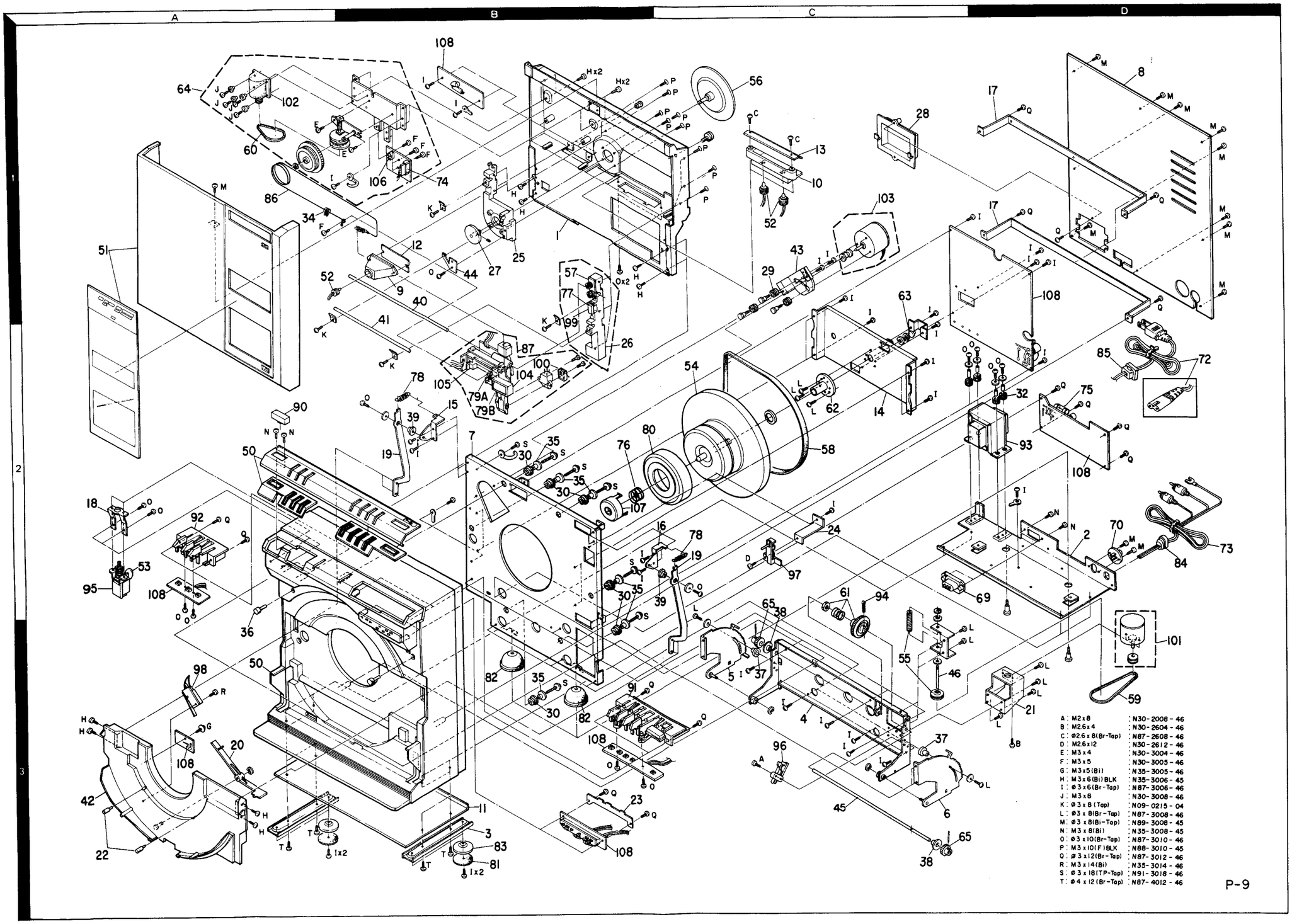
μPD552C-93



DC voltages are measured by a VOM of 20 kΩ/V input impedance.

P-9 P-9

EXPLODED VIEW



P-9

P-9

* New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnés dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
P-9 (UNIT)			
1 1B	NO STOCK	ARM CHASSIS	
2 2D	NO STOCK	MAIN CHASSIS	
3 3A,3B	NO STOCK	MAIN CHASSIS	
4 3C	NO STOCK	MAIN CHASSIS	
5 3C	NO STOCK	MOUNTING HARDWARE	
6 3C	NO STOCK	MOUNTING HARDWARE	
7 2B	NO STOCK	MAIN CHASSIS	
8 1D	NO STOCK	REAR PANEL	
9 1B	NO STOCK	REFLECTOR	
10 1C	NO STOCK	REFLECTOR	
11 3B	NO STOCK	BOTTOM PLATE	
12 1B	NO STOCK	FILTER	
13 1C	NO STOCK	FILTER	
14 2C	NO STOCK	MOUNTING HARDWARE	
15 2B	NO STOCK	MOUNTING HARDWARE	
16 2B	NO STOCK	MOUNTING HARDWARE	
17 1D	NO STOCK	MOUNTING HARDWARE	
18 2A	NO STOCK	MOUNTING HARDWARE	
19 2B	NO STOCK	LEVER ARM	
20 3A	NO STOCK	LEVER ARM	
21 3D	NO STOCK	HOLDER	
22 3A	NO STOCK	HOLDER	
23 3B	NO STOCK	HOLDER	
24 2C	NO STOCK	MOUNTING HARDWARE	
25 1B	NO STOCK	HOLDER	
26 2B	NO STOCK	HOLDER	
27 1B	NO STOCK	STOPPER	
28 1C	NO STOCK	COVER	
29 1C	NO STOCK	CUSHION	
30 2B	NO STOCK	CUSHION	
32 2D	NO STOCK	CUSHION	
34 1A	NO STOCK	LEAD CLAMPER	
35 2B	NO STOCK	COLLAR	
36 3A	NO STOCK	CUSHION	
37 3C	NO STOCK	COLLAR	
38 3C	NO STOCK	COLLAR	
39 2B	NO STOCK	BUSHING	
40 1B	NO STOCK	RAIL	
41 1B	NO STOCK	RAIL	
42 3A	NO STOCK	RECORD GUIDE	
43 1C	NO STOCK	MOUNTING HARDWARE	
45 3C	NO STOCK	SHAFT	
46 3C	NO STOCK	SHAFT	
50 1A	A02-0388-22	PLASTIC CABINET	*K
50 1A	A02-0388-22	PLASTIC CABINET	PU
50 1A	A02-0388-22	PLASTIC CABINET	MH
50 1A	A02-0388-22	PLASTIC CABINET	UE
50 1A	A02-0388-22	PLASTIC CABINET	SX
50 1A	A02-0388-22	PLASTIC CABINET	E
50 1A	A02-0389-22	PLASTIC CABINET	*T
50 1A	A02-0390-21	PLASTIC CABINET	*
51 1A	A20-2145-02	FRONT PANEL	
-	B46-0055-30	WARRANTY CARD	P
-	B46-0060-00	WARRANTY CARD	T
-	B46-0061-30	WARRANTY CARD	K
-	B46-0062-30	WARRANTY CARD	UH
-	B46-0062-30	WARRANTY CARD	UE
-	B46-0063-13	WARRANTY CARD	UH
-	B46-0063-13	WARRANTY CARD	UE
-	B46-0064-20	WARRANTY CARD	X

E: Scandinavia & Europe H: Audio Club K: USA P: Canada
S: South Africa T: England U: PX (Far East, Hawaii)
UE: AAFES (Europe) X: Australia M: Other Areas

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
-	B46-0078-03	WARRANTY CARD	E
-	B50-4441-00	INSTRUCTION MANUAL	*K
-	B50-4441-00	INSTRUCTION MANUAL	PU
-	B50-4441-00	INSTRUCTION MANUAL	MH
-	B50-4441-00	INSTRUCTION MANUAL	UE
-	B50-4441-00	INSTRUCTION MANUAL	SX
-	B50-4442-00	INSTRUCTION MANUAL	*P
-	B50-4442-00	INSTRUCTION MANUAL	MX
-	B50-4443-00	INSTRUCTION MANUAL	*M
-	B50-4444-00	INSTRUCTION MANUAL	*T
-	B50-4445-00	INSTRUCTION MANUAL	*E
-	B58-0223-04	CAUTION CARD	U
-	B58-0239-04	CAUTION CARD	K
-	B58-0513-04	CAUTION CARD	MH
-	B58-0513-04	CAUTION CARD	UE
-	B58-0513-04	CAUTION CARD	SX
-	B58-0513-04	CAUTION CARD	E
-	B59-0018-00	SERVICE STATIONS LIST	UH
-	B59-0018-00	SERVICE STATIONS LIST	UE
52 1A,1C	B30-0384-05	LAMP	*
53 2A	C91-0023-05	CERAMIC 0,01UF AC250V	UM
53 2A	C91-0023-05	CERAMIC 0,01UF AC250V	HS
53 2A	C91-0023-05	CERAMIC 0,01UF AC250V	UE
53 2A	C91-0023-05	CERAMIC 0,01UF AC250V	X
53 2A	C91-0079-05	CERAMIC 0,01UF AC125V	KP
53 2A	C91-0079-05	CERAMIC 0,01UF AC125V	TE
54 2C	D02-0046-05	TURNTABLE PLATTER	*
55 3C	D13-0250-14	GEAR	*
56 1C	D14-0258-15	IDLER	*
57 1B	D15-0558-04	PULLEY	*
58 2C	D16-0261-04	BELT	*
59 3D	D16-0260-04	BELT	*
60 1A	D16-0259-04	BELT	
61 3C	D19-0061-14	CLUTCH ASSY	*
62 2C	D23-0550-14	RETAINER	*
63 1C	D23-0557-14	RETAINER	*
64 1A	D40-0556-23	MECHANISM ASSY	*
65 3C	D13-0248-14	GEAR	*
69 2C	E03-0102-05	3P INLET	UM
69 2C	E03-0102-05	3P INLET	HS
69 2C	E03-0102-05	3P INLET	UE
69 2C	E03-0102-05	3P INLET	XT
69 2C	E03-0102-05	3P INLET	E
70 2D	E13-0151-05	PHONO JACK	*
72 2D	E30-0181-05	POWER CORD	KP
72 2D	E30-1305-15	POWER CORD	UM
72 2D	E30-1305-15	POWER CORD	UE
72 2D	E30-1328-15	POWER CORD	ST
72 2D	E30-1329-05	POWER CORD	HE
72 2D	E30-1342-05	POWER CORD	X
73 2D	E30-1358-05	AUDIO CORD	*P
73 2D	E30-1358-05	AUDIO CORD	UM
73 2D	E30-1358-05	AUDIO CORD	HS
73 2D	E30-1358-05	AUDIO CORD	UE
73 2D	E30-1358-05	AUDIO CORD	XT
73 2D	E30-1358-05	AUDIO CORD	E
73 2D	E30-1359-05	AUDIO CORD	*K
74 1B	E40-0673-05	PIN CONNECTOR	
76 2B	G01-1201-04	COIL SPRING	*
77 1B	G01-1206-04	COIL SPRING	*
78 1B	G01-1213-14	COIL SPRING	*

E: Scandinavia & Europe H: Audio Club K: USA P: Canada
S: South Africa T: England U: PX (Far East, Hawaii)
UE: AAFES (Europe) X: Australia M: Other Areas

PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
79A 2B	G01-1207-08	COIL SPRING	
79B 2B	G01-1208-08	COIL SPRING	
80 2B	G16-0359-14	TURNTABLE SHEET	*P
80 2B	G16-0359-14	TURNTABLE SHEET	UM
80 2B	G16-0359-14	TURNTABLE SHEET	HS
80 2B	G16-0361-14	TURNTABLE SHEET	*K
80 2B	G16-0359-14	TURNTABLE SHEET	UE
80 2B	G16-0359-14	TURNTABLE SHEET	XT
80 2B	G16-0359-14	TURNTABLE SHEET	E
81 3B	G10-0411-04	FELT	
-	H01-4344-04	CARTON BOX	*T
-	H01-4345-04	CARTON BOX	*K
-	H01-4345-04	CARTON BOX	PU
-	H01-4345-04	CARTON BOX	MH
-	H01-4345-04	CARTON BOX	UE
-	H01-4345-04	CARTON BOX	SX
-	H01-4345-04	CARTON BOX	E
-	H10-2320-02	POLYSTYRENE FIXTURE	*
-	H10-2321-02	POLYSTYRENE FIXTURE	*
-	H21-0613-04	SHEET	*
-	H25-0078-04	BAG (235X315)	
-	H25-0625-04	BAG	
-	H40-0005-04	SHEET	M
82 3B	J02-0349-04	FOOT	*
83 3B	J02-0350-04	FOOT	*
84 2D	J41-0017-05	BUSHING	
85 2D	J41-0034-05	BUSHING	KP
85 2D	J41-0034-05	BUSHING	X
86 1A	J60-0203-14	WIRE ASSY	*
87 2B	J91-0175-05	TONEARM ASSY	*
90 2A	K27-0363-14	KNOB	*
91 3B	K29-1011-13	KNOB	*
92 2A	K29-1012-13	KNOB	*
93 2D	L01-6531-05	POWER TRANS	*K
93 2D	L01-6531-05	POWER TRANS	P
93 2D	L01-6534-05	POWER TRANS	*U
93 2D	L01-6534-05	POWER TRANS	MH
93 2D	L01-6534-05	POWER TRANS	UE
93 2D	L01-6534-05	POWER TRANS	SX
93 2D	L01-6534-05	POWER TRANS	TE
-	N19-0143-04	POLYSLIDER WASHER	
-	N09-0987-05	SCREW	*
94 2C	N29-0227-05	FASTENER	*
95 2A	S40-1024-05	PUSH SWITCH	KP
95 2A	S40-1025-05	PUSH SWITCH	UM
95 2A	S40-1025-05	PUSH SWITCH	HS
95 2A	S40-1025-05	PUSH SWITCH	UE
95 2A	S40-1025-05	PUSH SWITCH	XT
95 2A	S40-1025-05	PUSH SWITCH	E
96 3C	S46-1015-05	LEAF SWITCH	*
97 2C	S46-2310-05	LEAF SWITCH	*
98 3A	S50-1306-05	SENSITIVE SWITCH	
99 1B	S50-1316-05	SENSITIVE SWITCH	*
100 2B	T21-0086-15	MAGNETIC CARTRIDGE	
101 3D	T42-0013-14	DC MOTOR	
102 1A	T42-0125-05	DC MOTOR	
103 1C	T42-0130-05	DC MOTOR	
104 2B	T94-0075-08	MAGNETIC PLUNGER	
105 2B	T95-0011-05	PHOTO INTERRUPTER	
106 1B	T95-0013-05	PHOTO INTERRUPTER	

E: Scandinavia & Europe H: Audio Club K: USA P: Canada
S: South Africa T: England U: PX (Far East, Hawaii)
UE: AAFES (Europe) X: Australia M: Other Areas

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Remarks 備考
107 2B	W01-0333-14	EP ADAPTOR	*
108 1D	X29-1390-11	CONTROL AMP PCB ASSY	*K
108 1D	X29-1390-11	CONTROL AMP PCB ASSY	P
108 1D	X29-1390-81	CONTROL AMP PCB ASSY	*U
108 1D	X29-1390-81	CONTROL AMP PCB ASSY	MH
108 1D	X29-1390-81	CONTROL AMP PCB ASSY	UE
108 1D	X29-1390-81	CONTROL AMP PCB ASSY	SX
108 1D	X29-1390-81	CONTROL AMP PCB ASSY	TE
CONTROL (X29-1390-11)			
D1 ,2	B30-0368-05	LAMP	
D3 -7	B30-0348-05	LAMP	
D8 -10	B30-0763-05	LAMP	
C1 ,2	C24-6522-81	ELECTRO 2200UF 35WV	
C3	C24-6510-81	ELECTRO 1000UF 35WV	
C4	C24-6533-67	ELECTRO 33UF 35WV	
C5 -8	C24-1233-67	ELECTRO 33UF 16WV	
C9 -14	C24-1710-57	ELECTRO 1UF 50WV	
C16	C24-1747-47	ELECTRO 0,47UF 50WV	
C18	C24-1410-77	ELECTRO 100UF 25WV	
C19	C71-1733-05	CERAMIC 33PF J	
C20	C45-1733-35	MYLAR 0,033UF J	
C21	C45-1733-25	MYLAR 0,0033UF J	
C22	C45-1747-25	MYLAR 0,0047UF J	
C23	C50-2022-34	POLYPRO 0,022UF G	
C24 -27	C91-0121-05	CERAMIC 0,1UF M	
C30	C24-6533-67	ELECTRO 33UF 35WV	
C31	C24-1233-67	ELECTRO 33UF 16WV	
C32	C24-1247-67	ELECTRO 47UF 16WV	
C33	C24-1210-77	ELECTRO 100UF 16WV	
-	J13-0055-05	FUSE HOLDER	
-	J13-0055-05	FUSE HOLDER	
R101,102	R47-5468-15	FL-PROOF RS680 J 3A	
R103	R47-5547-95	FL-PROOF RS4,7 J 3D	
R105	R42-1368-15	FL-PROOF RD680 J 2H	
R106	R42-1322-05	FL-PROOF RD22 J 2H	
R109,110	R42-1368-15	FL-PROOF RD680 J 2H	
R122	R47-5418-05	FL-PROOF RS18 J 3A	
R123	R47-5522-05	FL-PROOF RS22 J 3D	
VR1 -3	R12-3045-05	TRIMMING POTENTIOMETER	
RL1	S51-2046-05	RELAY	
S1 -8	S40-1040-05	PUSH SWITCH	
D11 -21	V11-0271-05	1S2076	
D22 -27	V11-6101-40	DS135E	
D29	V11-2400-20	W02	
D30	V11-6103-90	GZA10(Y)	
D31 ,32	V11-6103-40	GZA5,1	
D33 -35	V11-6103-00	GZA11(X)	
IC1	V30-0778-10	UPD552C-93	*
IC2	V30-0779-10	UPA2004C	*
IC3	V30-0704-10	RC4558P-D	
IC4	V30-0589-10	UPD4069UBC	
IC5	V30-0738-10	LB1601	
Q1 -9	V03-0945-80	2SC945(A)(Q,P)	
Q1 -9	V03-0945-80	2SC945(A)(Q,P)	
Q11 -15	V03-0945-80	2SC945(A)(Q,P)	
Q16 -19	V01-0733-40	2SA733(A)(Q,P)	
Q20 -23	V04-0882-10	2SD882(Q,P)	
Q25 ,26	V02-0772-10	2SB772(Q,P)	

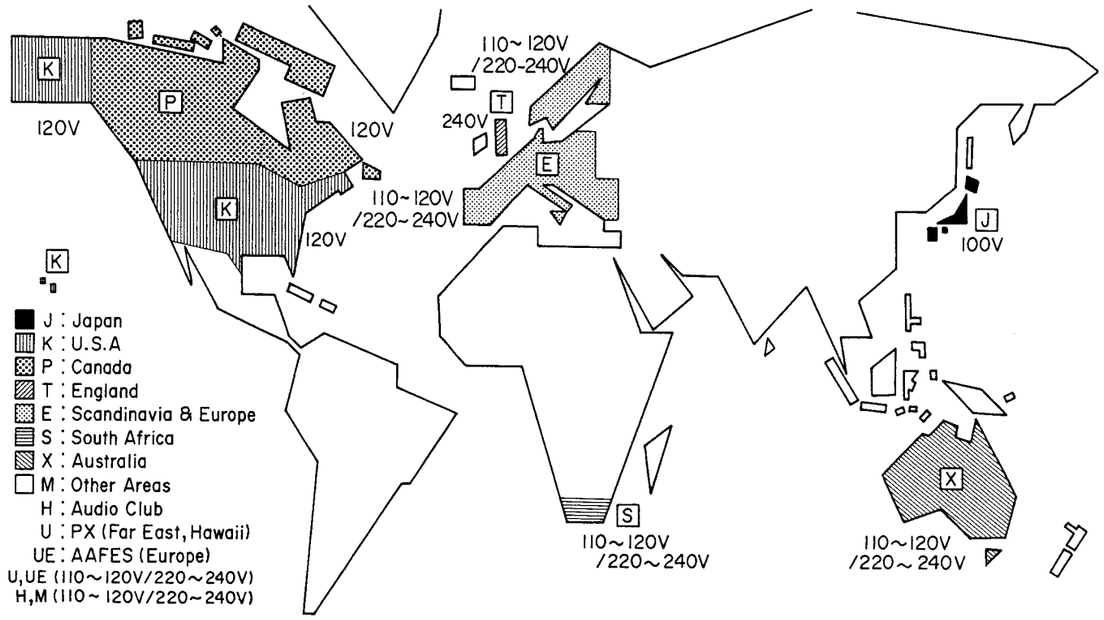
K: X29-1390-11
U: X29-1390-81

PARTS LIST

Ref. No. 参照番号	Parts No. 部品番号	Description 部品名／規格	Re-marks 備考
Q27	V04-0882-60	2SD882*1(Q,P)	
Q28 -30	V04-0863-10	2SD863(E,F)	
Q31	V02-0772-40	2SB772*1(Q,P)	
Q32 ,33	V11-1204-20	PH101	*
F1	F06-1521-05	FUSE	K
F1	F05-1521-05	FUSE	U
F2	F05-1024-05	FUSE	K
F2	F05-1023-05	FUSE	U

P-9

WORLD MAP & AREA CODE



Note:

Component and circuitry are subject to modification to insure best operation under differing local conditions. This manual is based on, the U.S. (K) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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